



POF 1262-A  
(INDIGENOUS  
SUPPLIES)

Government of Pakistan  
**PAKISTAN ORDNANCE FACTORIES**  
**TENDER ENQUIRY**

To M/s \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sirs,

Reference : TENDER ENQUIRY NO. **0215/LP/FILL/54**

DATED **28-OCT-24**

You are requested to submit quotations for the item(s) noted in the Schedule to the Tender. Please note the following instructions for filling the tender:-

**1. SUBMISSION OF TENDER**

- 1.1 Tenders will be opened at **12:00 hours** on **11-DEC-24** at Bid Centre adjacent to Rabita Hall, POF Wah Cantt. Quotation must be submitted electronically on **www.ebidding.pof.gov.pk** as well as in hard form (duly sealed in envelope) before 30 minutes of opening time. The tender received late will not be entertained. You may witness the opening of the tender if you so desire. If a representative is deputed, he should bring a letter of authority from you.

Tender Enquiry No: **0215/LP/FILL/54**

Tender to be opened on: **11-DEC-24**

Address as follows:-

**(www.ebidding.pof.gov.pk) BID CENTER**

**ADJACENT TO RABITA HALL**

**POFs, WAH CANTT.**

**2. GENERAL INSTRUCTIONS REGARDING PREPARATION OF QUOTATIONS**

- 2.1 **For Materials**, the prices should be filled in column 5 and delivery date in column 7 of the schedule to this Tender Enquiry. As per **PPRA Rule 36(b)**, **Single Stage two envelope method** will be utilized for "Open competitive bidding." Moreover, technical & commercial evaluation of Bids will be carried out strictly as per PPRA rules and contract(s) will be awarded to the most advantageous bidder(s).

- 2.2 **For Plant and Machinery**, you are required to quote in two parts:-

**Part I "Technical Offer"**: It should exclusively give technical details and literatures/brochures of the offered plant, machinery and equipment; validity date; delivery schedule; and signed undertaking given on the schedule to this Tender Enquiry. It must not indicate price, costs etc.

Cont....P-2

**Part II "Commercial Offer":** It should indicate the commercial terms e.g. price, terms of payment, mode of payment, mode of supply.

- 2.3 The quotation must remain valid for, at least 90 days from the date of opening of commercial tenders, extendable if so desired.
- 2.4 The quotation should hold good for any reduced or enhanced quantities without notice.
- 2.5 In the event of non-acceptance of offer, intimation may be given to the Tenderers on their request.
- 2.6 Conditional offers or alternative offers are likely to be ignored.
- 2.7 Quotations should be based on:-

F.O.R. station of dispatch basis, i.e. delivered free on rail, inclusive of packing and forwarding charges. The stores will be booked under Military Credit Note, to be provided by the purchaser.

and/or

Free delivery at POF's stores at **WAH CANTT**

In this case Octroi duty, will be payable by the supplier.

- 2.8 Taxes and Duties etc. where applicable, must be shown separately, quoting references to Registration No. in cases of Sales Tax and relevant authority in the case of others. Offers without these clarifications and inclusive of Taxes and Duties may be ignored.
- 2.9 Taxes and duties levied on or after Tender opening date or on or after the date offer was signed and dispatched will be allowed to include in the offered rates.
- 2.10 "Suppliers will furnish a certificate, issued by Excise & Taxation deptt., that he has cleared all Professional Tax payable by him" offers received without this certificate will be rejected.
- 2.11 Suppliers will render necessary information regarding hazardous effects on environment, of the material/products supplied by them, in their quotations and shipping/dispatch documents.
- 2.12 If the requisite information is not furnished on the T.E forms or offer received is not conformity with the requirement of the T.E such offer shall be ignored.

### **3. INSPECTION**

- 3.1 Supplies shall be subject to the inspection and acceptance by the competent inspection authority nominated by the Purchaser, who will arrange it at his own cost. Inspection facilities such as tools, test equipment, instruments etc will, however, be provided by the Suppliers in accordance with the relevant specifications.
- 3.2 Where considered necessary by the Purchaser, stores may be obtained on Warranty/Guarantee subject to inspection on receipt. Rejected stores will be removed and replaced with the acceptable stores by the Supplier at his own expense, within a specified time.

**4. TENDER FEE**

The tender must be accompanied by a copy of non-refundable fee by means of a crossed postal order/pay order for Rs. 500/- in favour of: **Director-Admin-POFs, Wah Cantt.** The tender fee instrument in original must be provided on day/date of tender opening in the Bid Center.

**4.1 TENDER SAMPLE**

Where required, offer must accompany tender sample., strictly according to the description and specification given in Tender Enquiry. Offer not accompanied by tender sample will NOT be entertained excepting the established and reputable firms who have either previously satisfactorily supplied the same or similar stores or have submitted an acceptable sample thereof against previous T.E.

**5. BID Security**

5.1 A copy of Bid Security should accompany the tender in shape of deposit at call receipt/Pay Order/Banker Cheque from scheduled bank drawn in favour of :-

**GM PP&C FILL**

5.2 Bid security instrument in original must be provided on the day/date of tender opening in the Bid Center as under:

- a. Registered/indexed firms including foreign firms - 2% of quoted value subject to the maximum ceiling of Rs. 0.5 Mn.
- b. Registered/un-indexed firms including foreign firms - 3% of quoted value subject to the maximum ceiling of Rs. 0.75 Mn.
- c. Unregistered Firms including foreign firms - 5% of quoted value subject to the maximum ceiling of Rs. 1.00 Mn.
- d. Govt organization/production units/state owned enterprises/welfare projects of Svcs HQ - Rs 0.50 M. can be waived off on request by DG(C)
- e. Bid money will be returned to unsuccessful (less first three lowest quotee firms) bidders on opening of commercial offers
- f. Bid money will be returned to successful bidders on submission of performance bond/unconditional B.G.
- g. Quotation accompanied with less bid money will be accepted on provisional basis for 10 x days after opening of bids. However the firms are bound to provide/furnish the balance bid money within 10 x days after opening of bid otherwise such quotations will be ignored or rejected
- h. Offers received without Bid Security will not be entertained.
- i. Bid money will be forfeited in case the quotation is withdrawn before the expiry of its validity date.

**6. ACCEPTANCE OF OFFERS**

6.1 POF may reject all bids or proposals at any time prior to the acceptance of bid(s) or proposal, but is not required to justify grounds for its rejection. POF shall incur no liability towards supplier or contractor who have submitted bids or proposals.

**6.2 PERFORMANCE BOND**

- (a) The successful bidders shall provide performance bond which shall not exceed 10% of contract value, in the form of Deposit At Call Receipt from a scheduled Bank; or, an un-conditional Bank Guarantee on a prescribed format. The performance Bond will be in favour of C.M.A.(POF) Wah Cantt. It will be returned on satisfactory completion of contract.
- (b) If the Supplier fails to furnish the Performance Bond within the specified time, such failure will constitute a breach of the contract and the Purchaser shall be entitled to make other arrangements for purchase of the stores at the risk and expense of the Supplier.

6.3 Performance Bond from State owned organizations may be waived off at the discretion of the Purchaser.

**6.4 FAILURE TO SUPPLY THE STORES**

All deliveries must be completed by the specified date. In case of failure to deliver the stores within the scheduled time should have arisen from "Force Majeure", which the purchaser may admit as reasonable ground for further time, he will allow such additional time as he may consider to have been required by the circumstances of the case. Otherwise, he will be entitled, at his discretion, to cancel the contract; and/or claim liquidated damages upto 2% but not less than 1% of the contract price of the items and their quantities for each and every month or part of a month, beyond the specified delivery date, during which these may not be delivered, subject to a maximum of 10% of the total contract value of the particular stores which remained unsupplied either in part or in full: or, to purchase from elsewhere, the unsupplied stores at the risk and cost of the supplier.

**6.5 PAYMENT**

Payment will be made by the CMA (POF) through crossed cheque on receipt/acceptance of stores on our prescribed bill form supported by receipt voucher on part/full supply basis.

(a) Payment of duties/Taxes including professional tax (where applicable) must be supported by proof of having paid these to concerned Govt. Taxation Deptt.

**7. SECURITY OF INFORMATION**

The tenderer and his employees must not communicate any information relating to the sale/purchase of stores under this enquiry to any person other than the manufacturer or to any press or agent not authorised in writing by POFs to receive it.

Please return the Schedule to the Tender duly signed by the specified date, along with the specifications, drawings etc. if any, enclosed herewith - even if you are unable to quote.

**WARNING** In case the firm abstain from making offers or fail to return/acknowledge the tender form by the specified date on three consecutive occasions, no further tender enquiry may be issued to them and their names would liable to removed from the approved list.

Yours faithfully

**SUMAIRA YAMIN  
MANAGER PURCHASE FILL**

for PAKISTAN ORDNANCE FACTORIES

## PAKISTAN ORDNANCE FACTORIES

SCHEDULE TO TENDER NO. 0215/LP/FILL/5428-OCT-24**(1) FOR MATERIALS**

(1)	(2)	(3)	(4)	(5)	(6)		(7)
Item No.	Description with Specs. etc.	Unit	Qty	Quoted Value	Price Per Unit FOR or free delivery		Delivery Date
					In Figures	In Words	

1	ARALDITE SPEC.NO.AW-106	KG	35				IMMEDIATE
2	HARDENER HV-953 U HV-953 U	KG	35				IMMEDIATE

<b>Total Rs =</b>	
<b>+ GST =</b>	
<b>Total value Rs =</b>	

(2) For Plant & Machinery:  
Specification:-

**(3) Special Conditions**

- (1) Required Delivery period: 03 Months after placement of contract.
- (2) Inspection of store will be carried out by Director QA POF Wah Cantt and 05% Super check by user section.
- (3) Firms registered with Sales Tax and Income Departments who are on Active Taxpayers List (ATL) of FBR are eligible to participate in the bid. Documentary proof of the same must be attached with the bid.
- (4) Participating firms must confirm TE spec. Parameters
- (5) The tender received without electronic means will not be entertained. You may witness the opening of tender if you so desire. If a representative is deputed, he should bring a letter of authority.
- (6) Hard copy of both technical & financial quotations must also be reached to Bid Centre before tender opening. Photocopy of bid money hiding the amount must be accompanied with technical quotation.
- (7) Validity period will be considered after opening of commercial offer.
- (8) Quotation must remain valid at least for 90 days from date of commercial opening and should hold good for any reduced or enhanced quantity.
- (9) Photocopy of NTN & PTC Certificate duly attested by Gazetted Class-I Officer must be attached with the bid.
- (10) Participating firms should have not defaulted in any contract with POF or any other govt. organization.
- (11) Bids will be opened as per PPRA Rule 36 (b) "Single Stage-Two Envelope Procedure" in which the bid shall comprise of two separate envelopes: Technical proposal and commercial proposal. Initially only Technical Offer will be opened.
- (12) Price escalation clause is not allowed. No fax or e-mail offer will be accepted.
- (13) Supplier must accept all the terms and conditions embodied in the form POF 1281 (General conditions of contract) and in T.E general instructions Performa form POF 1262 A (indigenous supplies).
- (14) Rates and sales Tax must be shown separately otherwise rate will be considered inclusive of G.S.T.
- (15) Please clearly confirm our specs / drawing. Conditional or alternative offers are likely to be ignored.
- (16) The store must be protected adequately and appropriately against damages from environmental effects, water or other substances during journey/transportation to withstand the rough handling involved in the transit and provide preservation of store while held in the storage by the supplier.
- (17) Any quantity of store, if found defective functionally will essentially be replaced by the supplier free of cost under his own arrangements.
- (18) The firm will furnish warranty/ Guarantee for 01 year.
- (19) Material Safety Data Sheet (MSDS) may be provided at the time of supply.

PAKISTAN ORDNANCE FACTORIES

SCHEDULE TO TENDER NO. 0215/LP/FILL/54

28-OCT-24

(1)	(2)	(3)	(4)	(5)	(6)		(7)
Item No.	Description with Specs. etc.	Unit	Qty	Quoted Value	Price Per Unit FOR or free delivery		Delivery Date
					In Figures	In Words	

**Undertaking**

Should our offer be accepted, we hereby undertake to supply the stores/render the services contracted on the basis of General Conditions of Contract embodied in Form POF 1281, and to deposit the performance bond within the prescribed time, failing which it will constitute a breach of contract, and POF will have the right to purchase the stores/services elsewhere at our risk and cost.

Place \_\_\_\_\_  
 Date \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature of the Tenderer \_\_\_\_\_  
 Name \_\_\_\_\_  
 Position \_\_\_\_\_  
 Address \_\_\_\_\_  
 Income Tax G.I.R. No \_\_\_\_\_  
 Official Stamp \_\_\_\_\_

Huntsman Advanced Materials Americas Inc.  
5121 San Fernando Road West  
Los Angeles, CA 90039  
818.247.6210

Customer Service Hotline: 800.367.8793  
Customer Service Faxline: 517.351.6255  
Technical Inquiries: 800.817.8260

**HUNTSMAN**

website: [www.araldite.com](http://www.araldite.com)  
e-mail: [adhesives\\_group@huntsman.com](mailto:adhesives_group@huntsman.com)

## Product Data

# ARALDITE<sup>®</sup> AW 106 Resin Hardener HV 953U MULTI-PURPOSE EPOXY ADHESIVE

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**DESCRIPTION:** Araldite AW 106 resin/Hardener HV 953U epoxy adhesive is a multi-purpose, viscous material that is suitable for bonding a variety of materials including metal, ceramic, and wood. The electrically insulating adhesive is easy to apply either manually by spatula and stiff brush or mechanically with meter/mix and coating equipment. Araldite AW 106 resin/Hardener HV 953U epoxy adhesive cures at temperatures from 68°F (20°C) to 356°F (180°C) with no release of volatile constituents.

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**APPLICATIONS:**

- Metal
- Ceramics
- Wood
- Vulcanized Rubber
- Foams
- Plastics

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**ADVANTAGES:**

- Long open time
- High shear and peel strength
- Easy to apply
- Good resistance to static and dynamic loads
- Electrically insulating

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**TYPICAL PROPERTIES:**

<u>Property</u>	<u>Test Method</u>	<u>Test Values<sup>(1)</sup></u>	
		<u>Resin</u>	<u>Hardener</u>
Color/appearance	Visual	Creamy, viscous/liquid	Amber Liquid
Specific Gravity	ASTM D-792	1.17	0.92
Viscosity (cP) @ 77°F (25°C)	ASTM D-2393	50,000	35,000

**TYPICAL MIXED PROPERTIES:**

<u>Property</u>	<u>Test Method</u>	<u>Test Values<sup>(1)</sup></u>
Reaction Ratio (by weight)		100R/80H
Reaction Ratio (by volume)		100R/100H
Pot Life, hours @ 77°F (25°C) (4.fl. oz. mass)	ASTM D-2471	2
Mixed viscosity (cP) @ 77°F (25°C)	ASTM D-2393	45,000

<sup>1</sup>Tested @ 77°F (25°C)**RECOMMENDED CURE SCHEDULES:**

<u>Temperature</u>	<u>Handling Strength</u>	<u>Minimum Cure Time</u>
68°F (20°C)	12 hours	15 hours
77°F(25°C)	7 hours	12 hours
104°F (40°C)	2 hours	3 hours
158°F (70°C)	30 minutes	50 minutes
212°F (100°C)	6 minutes	10 minutes
302°F (150°C)	4 minutes	5 minutes

**TYPICAL CURED PROPERTIES:****Application of Adhesive**

The resin/hardener mix is applied with a spatula to the pretreated and dry joint surfaces.

A layer of adhesive 0.002 to 0.004-inches (0.05 to 0.10-mm) thick will normally impart the greatest lap shear strength to a joint.

The joint components should be assembled and clamped as soon as the adhesive has been applied. Even contact throughout suffices to ensure proper cure.

**Standard Test Specimens**

Unless otherwise stated, the figures given below were all determined by testing standard specimens made up by lap-jointing 4-inch x 1-inch x 0.06-inch (10-cm x 2.5-cm x 1.5-mm) strips of aluminum. The joint area was 0.5 x 1 inch (12.5 mm x 2.5 cm) in each case.



**Property**  
**Lap Shear Strength, psi (MPa)**  
**Effects of cure time and temperature**

**Test Method**  
 ASTM D-1002

**Test Values<sup>(1)</sup>**

<u>Cure Temperature</u>	<u>Time</u>	
77°F (25°C)	8 hours	710 (4.9)
	15 hours	1990 (13.7)
	24 hours	2130 (14.7)
	72 hours	2280 (15.7)
	5 days	2560 (17.6)
158°F (70°C)	1 hour	3130 (21.5)
	2 hours	3410 (23.5)
	3 hours	3200 (22)
212°F (100°C)	10 minutes	3700 (25.5)
	20 minutes	3980 (27.4)
	30 minutes	4120 (28.4)
302°F (150°C)	5 minutes	4270 (29.4)
	10 minutes	4410 (30.4)
	20 minutes	4410 (30.4)

**Property**  
**Lap Shear Strength, psi (MPa)**  
**Effect of Test Temperature**

**Test Method**  
 ASTM D-1002

(Load applied 10 minutes after specimens reach test temperature.)

<u>Cure Cycle</u>	<u>Test Temp.</u>	
5 days @ 77°F (25°C)	-76°F (-60°C)	2840 (19.5)
	-4°F (-20°C)	2840 (19.5)
	68°F (20°C)	2560 (17.6)
	104°F (40°C)	1420 (9.8)
	140°F (60°C)	570 (3.9)
20 min @ 212°F (100°C)	-76°F (-60°C)	3560 (24.5)
	-4°F (-20°C)	3410 (23.5)
	68°F (20°C)	3980 (27.4)
	104°F (40°C)	1990 (13.7)
	140°F (60°C)	1000 (6.9)

<sup>1</sup>Tested @ 77°F (25°C)

**Property**

**Lap Shear Strength, psi (MPa)**

***Effect of Immersion***

(Cure cycle 16 hours @ 104°F (40°C). Immersion for 90 days in media listed.)

<b><u>Media</u></b>	<b><u>Test Values<sup>(1)</sup></u></b>
Standard - As prepared	2560 (17.6)
Acetone (30 days)	570 (3.9)
Acetylene	430 (2.9)
Gasoline	2410 (16.6)
Ethyl Acetate (30 days)	570 (3.9)
Acetic Acid 10%	Degraded
Methanol	Degraded
Lubricating Oil - HD30	2560 (17.6)
Kerosene	Degraded
Trichloroethylene	Degraded
Water @ 68°F (20°C)	1420 (9.8)
Water @ 194°F (90°C)	430 (2.9)

**Lap Shear Strength, psi (MPa)**

***Effect of Tropical Exposure***

(104°F/40°C at 92% R.H.)

<b><u>Cure Cycle</u></b>	<b><u>Exposure Time</u></b>	<b><u>Test Values<sup>(1)</sup></u></b>
16 hrs @ 104°F (40°C)	0 days	2560 (17.6)
	10 days	2560 (17.6)
	30 days	1710 (11.8)
	60 days	1560 (10.7)
	90 days	570 (3.9)
20 min @ 212°F (100°C)	0 days	3980 (27.4)
	10 days	2560 (17.6)
	30 days	1710 (11.8)
	60 days	1560 (10.7)
	90 days	1280 (8.8)

<sup>1</sup>Tested @ 77°F (25°C)

**Lap Shear Strength, psi (MPa)**  
**Effect of Heat Aging**  
 (Cured 16 hours @ 104°F (40°C)).

**Test Method**  
 ASTM D-1002

<u>Aging Temperature</u>	<u>Exposure Time</u>	<u>Test Values<sup>(1)</sup></u>
68°F (20°C)	0 days	2560 (17.6)
	1 years	2560 (17.6)
	2 years	2280 (15.7)
	3 years	1710 (11.8)
	4 years	1990 (13.7)
	5 year	1990 (13.7)
140°F (60°C)	3 days	2560 (17.6)
	10 days	2420 (16.6)
	30 days	2130 (14.7)
176°F (80°C)	3 days	2130 (14.7)
	10 days	2130 (14.7)
	30 days	2130 (14.7)
	60 days	2130 (14.7)
	1 year	1280 (8.8)
	2 years	710 (4.9)
	3 years	710 (4.9)
	4 years	430 (2.9)
	5 years	280 (1.9)
	248°F (120°C)	3 days
10 days		2280 (15.7)
30 days		2280 (15.7)
60 days		2130 (14.7)

**Property**  
**Lap Shear Strength, psi (MPa)**  
**Tested on Metal Substrates**  
 (Cured 20 min @ 212°F (100°C))

<u>Metal</u>	<u>Substrate Thickness</u> <u>(in./mm)</u>	<u>Test Values<sup>(1)</sup></u>
Carbon Steel	0.039/1.0	3840 (26.4)
Stainless Steel	0.039/1.0	3270 (22.5)
Galvanized Steel <sup>2</sup>	0.06/1.5	1990 (13.7)
Copper	0.06/ 1.5	3270 (22.5)
Brass	0.06/ 1.5	2990 (20.6)

<sup>1</sup>Tested @ 77°F (25°C)

<sup>2</sup>Surface degreased only, not roughened.

**Property**

**Fatigue Strength**

Tested using a load frequency of 90 Hz and a 1 inch (25 mm) joint overlap  
(Cured 20 min @ 212°F (100°C))

**Fatigue Limit Load**

<b><u>% Static Shear Strength</u></b>	<b><u>Cycles to Failure<sup>(1)</sup></u></b>
50	10 <sup>3</sup> -10 <sup>4</sup>
40	10 <sup>4</sup> -10 <sup>5</sup>
30	10 <sup>5</sup> -10 <sup>6</sup>
25	10 <sup>5</sup> -10 <sup>6</sup>
20	10 <sup>6</sup> -10 <sup>7</sup>
15	10 <sup>7</sup>

**Property**

**Test Method**

**Test Values<sup>(1)</sup>**

Ultimate Tensile Strength, psi (MPa)	ASTM D-638	4800 (33)
Elongation, %	ASTM D-638	9
Tg per DMA, °F (°C)	ASTM D-4065	146 (63)
Hardness, Shore D	ASTM D-2240	80
Coefficient of Thermal Expansion (in/in/°C)	ASTM E-831	8.5 x 10 <sup>-5</sup>
Roller Peel Test, pli (N/mm)	ISO 4578	28 (4.9)

<sup>1</sup>Tested @ 77°F (25°C)

**Electrical Properties**

Thermal Conductivity, W/mK	0.22
Surface Resistivity, ohms	1.2 E+16
Dielectric Strength, volt/mil	400
Volume Resistivity, ohms-cm	7.1 E+14
Dielectric Constant, at 50Hz/1KHz/10KHz	3.4/3.2/3.2
Loss Tangent, % at 50Hz/1KHz/10KHz	1.7/1.8/2.6

**STORAGE/  
SHELF LIFE:**

Araldite epoxy adhesive components should be stored in their original, sealed containers at room temperature. When stored at temperatures from 59-77°F (15-25°C), the resin and hardener will remain in useable condition for 12 months from date of shipping from Huntsman.

## CAUTION:

Huntsman Advanced Materials Americas Inc. maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material. Copies of the latest MSDS may be requested by calling our customer service group at 800-367-8793 or emailing your request to [adhesives\\_group@huntsman.com](mailto:adhesives_group@huntsman.com).

## FIRST AID!

Eyes and skin: Flush eyes with water for 15 minutes. Contact a physician if irritation persists. Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

Inhalation: Remove subject to fresh air.

Swallowing: Dilute by giving water to drink and contact a physician promptly. Never give anything to drink to an unconscious person.

**KEEP OUT OF REACH OF CHILDREN**

**FOR PROFESSIONAL AND INDUSTRIAL USE ONLY**

### **IMPORTANT LEGAL NOTICE:**

Sales of a referenced product ("Product") are subject to the general terms and conditions of sale of Huntsman Advanced Materials Americas Inc. ("Huntsman").

**WARRANTY:** Huntsman warrants to the Buyer that the Product will conform to the published specifications for that Product at the time of manufacture.

**DISCLAIMER AND LIMITATION OF LIABILITY:** EXCEPT AS SET FORTH ABOVE, HUNTSMAN MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Huntsman cannot control Buyer's application and use of the Product and accepts no responsibility therefore. No statement or recommendation contained in any Product literature may be construed as a representation about the suitability of a Product for the particular application of Buyer or user or as an inducement to infringe any relevant patent. Buyer is responsible to ensure that its intended use of the Product does not infringe any third-party's intellectual property rights. Huntsman neither assumes, nor authorizes any representative or other person to assume for it, any obligation or liability other than as is expressly set forth herein. UNDER NO CIRCUMSTANCES SHALL HUNTSMAN BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, SPECIAL OR OTHER INDIRECT DAMAGES AS A RESULT OF A BREACH OF ANY WARRANTY OR THE FAILURE OF A PRODUCT OR ANY CLAIM THAT IS ESSENTIALLY BASED UPON SUCH BREACH OR FAILURE. Any claim by Buyer, whether arising in contract, tort, negligence, breach of warranty, strict liability, or otherwise, related to a Product shall be limited to, and the sole liability of Huntsman and the sole remedy of Buyer for any claims shall be for, the purchase price of the Product in respect of which such claim is made. The foregoing DISCLAIMER AND LIMITATION OF LIABILITY supersedes Buyer's documents.

**WARNING:** Technical data and results are based upon tests under controlled laboratory conditions and must be confirmed by Buyer by testing for its intended conditions of use. The Product has not been tested for, and therefore is not recommended or suitable for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended or likely, or for uses for which implantation within the human body is intended, and Huntsman assumes no liability for any such uses.

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