

Technical Data Sheet

EPIKURE™ Curing Agent 3378

Product Description

EPIKURE™ Curing Agent 3378 is a relatively low viscosity, modified amine adduct, light-colored epoxy curing agent which, when combined with epoxy resins, cures to clear, tack-free films under low-temperature and high humidity conditions.

Application Areas/Suggested Uses

- · Primers and topcoats for non-potable water containers and related equipment
- · Solvent-free marine coatings
- · Tough, flexible, fast-setting, high-clarity adhesives

Benefits

- Fast, tack-free cures
- Long pot-life
- · Good through- cure at low temperatures
- Good corrosion resistance
- · Excellent clarity and low color
- · Self-leveling properties

Sales Specifications

Property	Value	Unit	Test Method
Amine Value	245 - 265	mg/g	ASTMD2896
Color	3	Gardner	ASTMD1544
Viscosity at 25°C	2200 - 2800	сР	ASTMD2196

Typical Properties

Prop	erty	Value	Unit	Test Method
Density		8.5	lbs/gal	ASTMD1475
Equivalent Weight Approx.		114	AHEW	
Non-volatile materials		100.0	% by Weight	

Performance Properties

Table 1 / Properties of EPON™ Resin 828 cured with EPIKURE Curing Agent 3378

EPIKURE Curing Agent 3378

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	<u>Method</u>	<u>Units</u>	<u>Value</u>			
EPON™ Resin 828		pbw	100			
EPIKURE Curing Agent 3378		pbw	61			
Handling Properties @ 25°C						
Gel Time ¹ , 100 gram mass		min	27			
Cured State Properties						
Heat Deflection Temperature ²	ASTM D648	°C	44			
Tensile Strength ³	ASTM D638	psi	8,739			
Tensile Elongation		%	2.6			
Tensile Modulus		ksi	496			
Compressive Strength ⁴		psi	19,059			
Compressive Modulus		ksi	804			
Hardness ⁵		Durometer D	85			
Cure Schedule @ 25°C (77 °F)		days	14			
Chemical Resistance						
Water		%	0.1			
5% Acetic Acid		%	0.2			
50% Xylene/50% Isopropanol		%	1.0			
¹ SHYODU Gel Timer						
² HDT ASTM D648 (Deflection Temperature of Plastics Under Flexural L	oad in the Edgewise Position	on)				
³ ASTM D638 (Tensile Properties of Plastics)						
⁴ ASTM D695 (Compressive Properties of Rigid Plastics)						
⁵ ASTM D2240 (Standard Test Method for Rubber Property-Durometer Hardness)						
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EPON Resin 828 100 88 87 80 pbw **HELOXY Modifier 65** wda 12 **HELOXY Modifier 8** 13 pbw **HELOXY Modifier 62** pbw 20 **EPIKURE Curing Agent 3378** 60 60 60 60 pbw Handling Properties Gel time @ 25°C, 1 lb mass minutes 23 26 30 25 **Cure Conditions** @ 25° C (77°F), 50% Relative Humidity Hardness 1 24 hours Durometer D 86 70 53 50 Durometer D 2 days 86 78 67 61 7 days Durometer D 99 95 85 84 Film Properties 1 day Clear, Tack-free **Cure Conditions** @ 10°C (50°F), 50% Relative Humidity Hardness 24 hours 54 34 34 Durometer D 34

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Composition	Unit	1	2	3	4
2 days	Durometer D	77	63	50	41
7 days	Durometer D	92	80	61	53
14 days	Durometer D	92	84	70	53
Film Properties					
1 day		Clear, Slight tack			
7 days		Clear, Tack-free			
Cure Conditions		@ 4°C (40°F), 50% Relative Humidity			
Hardness					
24 hours	Durometer D	35	33	33	33
2 days	Durometer D	85	57	55	47
7 days	Durometer D	94	89	74	65
14 days	Durometer D	95	91	86	73
Film Properties					
1 day		Clear, Slight tack			
7 days		Clear, Tack-free			
Hardness @ 121°C (250°F)					
1 hour	Durometer D	100	99	93	100
Weight Loss, @ 121°C (250°F)					
24 hours	%	3.37	3.51	3.19	3.49
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¹ ASTM D2240 (Standard Test Method for Rubber Property-Durometer Hardness

Safety, Storage & Handling

Please refer to the MSDS for the most current Safety and Handling information.

Please refer to the Hexion web site for Shelf Life and recommended Storage information.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and proper personal protective clothing and equipment, and adherence to proper handling procedures. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them. Questions and requests for information on Hexion Inc. ("Hexion") products should be directed to your Hexion sales representative, or the nearest Hexion sales office. Information and MSDSs on non-Hexion products should be obtained from the respective manufacturer.

Packaging

Available in bulk and drum quantities.

Contact Information

For product prices, availability, or order placement, please contact customer service: www.hexion.com/Contacts/

For literature and technical assistance, visit our website atwww.hexion.com

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