PRO-SET.

Technical Data M1002 M2044

The New Standard

TOUGHENED LAMINATING EPOXY

COMBINED FEATURES



Shelf life is 3 years for resin and 2 years for hardener when properly stored².

IS09001:2015 Certified

888-377-6738

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Some separation may occur during storage. Stir resin before mixing with hardener.

HANDLING PROPERTIES

Property	Standard	Units	72°F (22°C)
100g Pot Life	ASTM D2471	minutes	48-60
Viscosity Mixed	ASTM D2196	сР	1,400
Viscosity (resin)	ASTM D2196	сР	4,800
Viscosity (hardener)	ASTM D2196	сР	75

MIX RATIO

Method	Resin:Hardener	Range	Resin:Hardener	Range
Weight	4.17:1	3.91:1-4.61:1	100:24.0	100:25.60-100:21.70
Volume	3.45:1	3.25:1-3.82:1	100:29.0	100:30.80-100:26.20

DENSITY

State	Units	72°F (22°C)
Cured	lb/gal (g/cc)	9.81 (1.17)

MECHANICAL PROPERTIES

Property	Standard	Units	72°F (22°C) x 2 wk	RT Gelation + 140°F (60°C) x 8 hrs
Hardness	ASTM D2240	Type D	80	84
Compression Yield	ASTM D695	psi (MPa)	13,600 (94)	14,100 (97)
Tensile Strength	ASTM D638	psi (MPa)	7,550 (52)	9,690 (67)
Tensile Modulus	ASTM D638	psi (MPa)	4.76E+05 (3.28)	4.52E+05 (3.12)
Tensile Elongation	ASTM D638	%	2.1	4.0
Flexural Strength	ASTM D790	psi (MPa)	12,400 (85)	14,100 (97)
Flexural Modulus	ASTM D790	psi (MPa)	4.73E+05 (3.26)	5.99E+05 (4.13)

THERMAL PROPERTIES

Property	Standard	Units	72°F (22°C) x 2 wk	RT Gelation + 140°F (60°C) x 8 hrs
Tg DSC Onset–1st Heat	ASTM E1356	°F (°C)	127 (53)	153 (67)
Heat Deflection Temperature	ASTM D648	°F (°C)	124 (51)	162 (72)
Ultimate Tg by DSC	ASTM E1356	°F (°C)	162 (72) ¹	

¹ Additional post cure may be required; contact Technical Department for details.

² Store PRO-SET® Epoxy resins and hardeners at room temperature in sealed containers until shortly before use. As with many high-performance epoxy resins, repeated exposure to low temperatures during storage may cause the resin to crystallize. If this occurs, warm the resin to 125° F and stir to dissolve crystals. Hardeners may form carbamation when exposed to CO_2 and moisture in the atmosphere for extended periods of time. Prevent carbamation by protecting hardeners from exposure until immediately prior to processing.

Test specimens were neat epoxy (without fiber reinforcement). Typical values, not to be construed as specification.