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Technical Data XR28A~M2044

FIRE RETARDANT INFUSION EPOXY COMBINED FEATURES

Very low viscosity for rapid saturation of fiberglass, Kevlar® and carbon fiber laminate with resin infusion and VARTM processes.

Medium speed hardener provides up to 150 minutes of pot life at 72°F (22°C).

Fire retardant system contains high levels of phosphorous to reduce flame spread and smoke generation in a composite laminate when compared to a standard resin system.

This combination is formulated specifically for resin infusion and VARTM processes. Do not use in open mold applications.

Room temperature cure properties suitable for many composite components and structures.

T_g as high as 138°F (59°C) with proper post cure providing excellent temperature stability and great part cosmetics.

HANDLING PROPERTIES

Property	Standard	Units	72°F (22°C)
100g Pot Life	-	minutes	135-165
Viscosity Mixed	ASTM D2196	cP	290

MIX RATIO

Method	Resin:Hardener	Resin:Hardener
Weight	3.64:1	100:27.5
Volume	3.09:1	100:32.4

EPOXIES for
Laminating
Infusion
Tooling
Assembly

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ISO9001:2015 Certified

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

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FIRE RETARDANT INFUSION EPOXY

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	83	84
Compression Yield	ASTM D695	psi (MPa)	11,800 (81)	12,300 (85)
Tensile Strength	ASTM D638	psi (MPa)	6,680 (46)	7,390 (51)
Tensile Modulus	ASTM D638	psi (GPa)	4.06E+05 (2.8)	4.14E+05 (2.85)
Tensile Elongation	ASTM D638	%	2.7	3.0
Flexural Strength	ASTM D790	psi (MPa)	11,800 (81)	12,900 (89)
Flexural Modulus	ASTM D790	psi (GPa)	3.62E+05 (2.5)	3.91E+05 (2.7)

THERMAL PROPERTIES

Property	Standard	Units	72°F (22°C) x 2 wk	RT Gelation + 140°F (60°C) x 8 hrs
T _g DSC Onset– 1st Heat	ASTM E1356	°F (°C)	121 (49)	119 (48)
Heat Deflection Temperature	ASTM D648	°F (°C)	116 (47)	118 (48)
T _g DSC Ultimate	ASTM E1356	°F (°C)	138 (59) 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 CO₂ and moisture in the atmosphere for extended periods of time. Prevent carbamation by protecting hardeners from exposure until immediately prior to processing.

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Shelf Life



QC Tinting Availa

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