

Lord Adhesives Fusor® 380NS / 383NS Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

LORD Fusor® 380NS/383NS adhesive is a two-part, rapid-cure epoxy adhesive used to bond fiberglass reinforced plastics (FRP), sheet molded compounds (SMC) and metals. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Fusor-380NS-383NS-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.38 - 1.50 g/cc	0.0499 - 0.0542 lb/in ³	383NS Hardener
	1.50 - 1.55 g/cc	0.0542 - 0.0560 lb/in ³	380NS Resin
Water Absorption	<= 1.0 %	<= 1.0 %	ASTM D570-81
Brookfield Viscosity	750000 - 2.20e+6 cP @Temperature 25.0 °C	750000 - 2.20e+6 cP @Temperature 77.0 °F	380NS Resin; HBF, Helipath, 5rpm, T-bar Spindle E
	500000 - 2.50e+6 cP @Temperature 25.0 °C	500000 - 2.50e+6 cP @Temperature 77.0 °F	383NS Hardener; HBF, Helipath, 5rpm, T-bar Spindle E

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.8 - 31.0 MPa	3600 - 4500 psi	ASTM D638
Modulus of Elasticity	4.83 - 5.52 GPa	700 - 800 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	90.0 °C	194 °F	ASTM D882-63A, Modified
Flash Point	>= 93.0 °C	>= 199 °F	380NS Resin; Closed Cup
	>= 93.0 °C	>= 199 °F	383NS Hardener; Closed Cup
Shrinkage	0.40 %	0.40 %	Cured 30 min @ 300°F

Processing Properties	Metric	English	Comments
Cure Time	120 min @Temperature >=65.0 °C	2.00 hour @Temperature >=149 °F	Handling strength
	1440 min	24.0 hour	

Processing Properties	Metric	English	Comments
Pot Life	10 - 15 min	10 - 15 min	
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
	>= 20 min	>= 20 min	
	@Temperature 40.0 Å°C	@Temperature 104 Å°F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	

Descriptive Properties	Value	Comments
Appearance	Black Paste	383NS Hardener
	Gray	Mixed
	Off-White Paste	380NS Resin
Mix Ratio	1:0.95	by weight
	1:1	by volume

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