

Lord Adhesives 320 / 322 Epoxy Adhesive

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

Material Notes:

LORD® 320/322 adhesive is a general purpose, two component epoxy adhesive system formulated for primerless adhesion to automotive sheet molded compounds (SMC). This adhesive system also provides excellent adhesion to prepared metals, rubber, fiberglass reinforced plastics (FRP), polyester thermosets and thermoplastics, and many other materials. LORD 320/322 adhesive can be either room temperature cured or heat cured for faster processing. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-320-322-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.23 - 1.26 g/cc	0.0444 - 0.0455 lb/in ³	322 Hardener
	1.50 - 1.55 g/cc	0.0542 - 0.0560 lb/in ³	320 Resin
Solids Content	100 %	100 %	
Brookfield Viscosity	300000 - 1.00e+6 cP @Temperature 25.0 °C	300000 - 1.00e+6 cP @Temperature 77.0 °F	320 Resin; HBF, Helipath @ 5rpm, T-Bar Spindle D
	450000 - 2.00e+6 cP @Temperature 25.0 °C	450000 - 2.00e+6 cP @Temperature 77.0 °F	322 Hardener; HBF, Helipath @ 5rpm, T-Bar Spindle E

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.6 MPa	4440 psi	ASTM D882-83A (mod)
Elongation at Break	3.0 %	3.0 %	ASTM D882-83A (mod)
Modulus of Elasticity	1.59 GPa	230 ksi	ASTM D882-83A (mod)

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	80.0 °C	176 °F	ASTM E1640-99 (by DMA)
Flash Point	>= 93.0 °C	>= 199 °F	320 Resin; Closed Cup
	>= 93.0 °C	>= 199 °F	322 Hardener; Closed Cup

Processing Properties	Metric	English	Comments
Cure Time	1440 min	24.0 hour	
	@Temperature >=18.0 °C	@Temperature >=64.4 °F	

Processing Properties	Metric min	English 20-40 min	Comments
Pot Life	@Temperature 24.0 Å°C	@Temperature 75.2 Å°F	54g mass
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 21.0 - 27.0 Å°C	@Temperature 69.8 - 80.6 Å°F	
	12.0 Month	12.0 Month	
	@Temperature 21.0 - 27.0 Å°C	@Temperature 69.8 - 80.6 Å°F	

Descriptive Properties	Value	Comments
Appearance	Gray	322 Hardener
	Gray	Mixed
	Off-white	320 Resin
Consistency	Paste	320 Resin
	Paste	322 Hardener
	Paste	Mixed
Mix Ratio	1.2:1	by weight; general purpose (-40 to 400Å°F)
	1:1	by volume; general purpose (-40 to 400Å°F)

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