

Lord Adhesives Fusor® 310 A/B Epoxy Adhesive

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

Material Notes:

Lord® 310 adhesive is a modified, thixotropic, two-part epoxy adhesive which bonds well to many types of prepared metals, prepared rubber, urethane, and plastics. Originally formulated for primerless adhesion to SMC, Lord 310 adhesive is used to bond disk drives, down-hole oil field equipment, automotive body panels, and spoilers, vibration dampening mounts and much more. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Fusor-310-AB-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.20 - 1.32 g/cc	0.0434 - 0.0477 lb/in ³	310B Hardener
	1.40 - 1.54 g/cc	0.0506 - 0.0556 lb/in ³	310A Resin
Solids Content	100 %	100 %	310A Resin
	100 %	100 %	310B Hardener
	100 %	100 %	Mixed
Water Absorption	0.36 %	0.36 %	ASTM D570-81
	@Time 86400 sec	@Time 24.0 hour	
Brookfield Viscosity	230000 - 690000 cP	230000 - 690000 cP	310B Hardener; HBF, Helipath @ 5rpm
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	400000 - 820000 cP	400000 - 820000 cP	310A Resin; HBF, Helipath @ 5rpm
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	Lord TM 23B
Tensile Strength at Break	32.1 MPa	4650 psi	ASTM D882-83A (mod)
Elongation at Break	2.0 %	2.0 %	ASTM D882-83A (mod)
Modulus of Elasticity	1.69 GPa	245 ksi	ASTM D882-83A (mod)

Thermal Properties	Metric	English	Comments
CTE, linear	327 Âµm/m-°C	182 Âµin/in-°F	below Tg; ASTM D882-83A (mod)
	340 Âµm/m-°C	189 Âµin/in-°F	above Tg; Lord Internal Method (by

Thermal Properties	Metric	English	^{DMA1} Comments
Glass Transition Temp, Tg	60.0 Å°C	140 Å°F	ASTM E1640-99 (by DMA)
Flash Point	>= 93.0 Å°C	>= 199 Å°F	310A Resin; Closed Cup
	>= 93.0 Å°C	>= 199 Å°F	310B Hardener; Closed Cup
	>= 93.0 Å°C	>= 199 Å°F	Mixed; Closed Cup
Shrinkage	0.17 %	0.17 %	72 hours RT cure

Processing Properties	Metric	English	Comments
Cure Time	1440 min	24.0 hour	
	@Temperature >=18.0 Å°C	@Temperature >=64.4 Å°F	
Pot Life	30 - 60 min	30 - 60 min	54g mass
	@Temperature 24.0 Å°C	@Temperature 75.2 Å°F	
Shelf Life	12.0 Month	12.0 Month	310A Resin
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	
	12.0 Month	12.0 Month	310B Hardener
	@Temperature 25.0 Å°C	@Temperature 77.0 Å°F	

Descriptive Properties	Value	Comments
Appearance	Gray	310B Hardener
	Gray	Mixed
	Off-White	310A Resin
Consistency	Paste	310A Resin
	Paste	310B Hardener
	Paste	Mixed
Mix Ratio	1.15:1	by weight
	1:1	by volume

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