

Atom Adhesives AA-BOND F253 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

AA-BOND F253 is a low viscosity, high temperature, two-part epoxy formulation that changes color during the curing process to indicate cure status. Appearance: Unmixed-Light Yellow; Mixed – Greenish Blue; Cured – Reddish Amber Cure Type: Heat cure or Room Temperature Benefits: Good impact and thermal shock resistance Demonstrates low stress Yields excellent pot and polish connections It is also resistant to water and weather, vapors and gases. Low viscosity High temperature Mix Ratio by weight: 100:10/Resin:Hardener Substrates: Wide variety of fiber optic and optical materials that includes most metals, ceramics, glass and many plastics Information provided by Atom Adhesives

Order this product through the following link:

http://www.lookpolymers.com/polymer_Atom-Adhesives-AA-BOND-F253-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	uncured
Solids Content	100 %	100 %	reactive, uncured
Volatile Organic Compounds (VOC) Content	19.6 g/l	19.6 g/l	
Water Absorption	0.0040 %	0.0040 %	
Viscosity	1800 cP	1800 cP	uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	cured
Shear Strength	18.6 MPa	2700 psi	cured, lap, Alum to Alum

Thermal Properties	Metric	English	Comments
CTE, linear	20.3 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	11.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	cured, Below Tg
	62.4 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	34.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	cured, Above Tg
Maximum Service Temperature, Air	175 $^\circ\text{C}$	347 $^\circ\text{F}$	
Minimum Service Temperature, Air	-60.0 $^\circ\text{C}$	-76.0 $^\circ\text{F}$	
Glass Transition Temp, Tg	116 $^\circ\text{C}$	241 $^\circ\text{F}$	

Optical Properties	Metric	English	Comments
Refractive Index	1.56	1.56	cured

Processing Properties	Metric	English	Comments
Cure Time	1.00 min	0.0167 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	5.00 min	0.0833 hour	
	@Temperature 125 °C	@Temperature 257 °F	
	15.0 min	0.250 hour	
	@Temperature 100 °C	@Temperature 212 °F	
Pot Life	60.0 min	60.0 min	uncured

Descriptive Properties	Value	Comments
Thixotropic Index	1	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China