

Master Bond MB250NT Low viscosity ethyl cyanoacrylate

Category : Polymer , Adhesive , Thermoset , Acrylic/Cyanoacrylate Adhesive

Material Notes:

Master Bond MB250NT is a single component ethyl cyanoacrylate type system. This rapid curing, high strength system is used primarily in applications where the ISO 10993-5 for low toxicity is specified. Cyanoacrylates are commonly referred to as super glues or instant adhesives. Their curing is dependent upon the humidity with the higher the level, the faster the rate of cure. Since the cure is typically fast, only minimal contact pressure is required for bonding. There is no mixing or heating required for curing. Depending upon the humidity and the substrates, MB250NT will typically set up within 10-40 seconds. MB250NT bonds well to a variety of substrates especially metals, composites, plastics and rubbers, especially in the shear mode.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-MB250NT-Low-viscosity-ethyl-cyanoacrylate.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	
Viscosity	100 - 110 cP	100 - 110 cP	mixed compound; thixotropic

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	
Tensile Strength	34.5 MPa @Temperature 23.9 °C	5000 psi @Temperature 75.0 °F	
Elongation at Break	2 - 3 %	2 - 3 %	
Tensile Modulus	1.38 - 1.72 GPa @Temperature 23.9 °C	200 - 250 ksi @Temperature 75.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 - 75.0 μm/m-°C	38.9 - 41.7 μin/in-°F	
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1e+15 ohm-cm @Temperature 25.0 °C	>= 1e+15 ohm-cm @Temperature 77.0 °F	
Dielectric Constant	3.6 @Frequency 1000 Hz,	3.6 @Frequency 1000 Hz,	

Electrical Properties	Temperature 23.0 °C Metric	Temperature 73.4 °F English	Comments
Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month	6.00 Month	unopened containers

Descriptive Properties	Value	Comments
Appearance	Colorless, transparent liquid	

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