Master Bond MB306 Low Viscosity Methyl Cyanoacrylate

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

Material Notes:

Features superior bonding properties. Master Bond MB306 is a single component, low viscosity, rapid setting, methyl cyanoacrylate adhesive. Similar to other types of "super glue", MB306 cures very rapidly with the rate of cure dependent upon the humidity—the higher it is, the faster the cure. Because curing is normally fast, minimal contact pressure is usually sufficient for bonding. It must be emphasized that this high strength system requires no heating or mixing. It typically sets up within 10-30 seconds depending upon the humidity and the substrates. The bond strength is exceptionally high in the shear mode. MB306 bonds well to a variety of substrates, such as plastics and rubbers, but it is most useful for bonding metals. It has reasonably good chemical resistance, especially to cleaning agents.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Master-Bond-MB306-Low-Viscosity-Methyl-Cyanoacrylate.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in³	
Viscosity	75 - 95 cP	75 - 95 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	
Tensile Strength	41.4 MPa @Temperature 23.9 °C	6000 psi @Temperature 75.0 °F	
Elongation at Break	2 - 3 %	2 - 3 %	
Tensile Modulus	1.38 - 1.72 GPa	200 - 250 ksi	
Adhesive Bond Strength	2.00 MPa	290 psi	Butyl-Butyl; Substrate Failure; Tensile Lap Shear
	3.17 MPa	460 psi	SBR-SBR; Substrate Failure; Tensile Lap Shear
	3.72 MPa	540 psi	Chloroprene-Chloroprene; Substrate Failure; Tensile Lap Shear
	3.72 MPa	540 psi	Natural Rubber-Natural Rubber; Substrate Failure; Tensile Lap Shear
	3.79 MPa	550 psi	Nitrile-Nitrile; Substrate Failure; Tensile Lap Shear
	3.86 MPa	560 psi	NBR-NBR; Substrate Failure; Tensile Lap Shear
	3.86 MPa	560 psi	Neoprene-Neoprene; Substrate Failure; Tensile Lap Shear
	4.14 MPa	600 psi	Polystyrene-Polystyrene; Substrate Failure; Tensile Lap Shear

Mechanical Properties	Metric	English	Comments
	4.48 MPa	650 psi	Delrin-Delrin; Tensile Lap Shear
	4.76 MPa	690 psi	Nylon-Nylon; Tensile Lap Shear
	5.38 MPa	780 psi	Bakelite-Nylon; Tensile Lap Shear
	6.83 MPa	990 psi	Aluminum-NBR; Tensile Lap Shear
	8.27 MPa	1200 psi	ABS-ABS; Substrate Failure; Tensile Lap Shear
	9.65 MPa	1400 psi	Phenolic-Phenolic; Substrate Failure; Tensile Lap Shear
	10.3 MPa	1490 psi	Aluminum-Steel; Tensile Lap Shear
	12.7 MPa	1840 psi	Chromium-Chromium; Tensile Lap Shear
	13.7 MPa	1980 psi	Aluminum-Aluminum; Tensile Lap Shear
	14.1 MPa	2050 psi	Polyester-Polyester; Tensile Lap Shear
	14.4 MPa	2090 psi	Aluminum-Stainless; Tensile Lap Shear
	19.3 MPa	2800 psi	Rigid PVC-Rigid PVC; Substrate Failure; Tensile Lap Shear
	20.4 MPa	2960 psi	Brass-Brass; Tensile Lap Shear
	20.5 MPa	2980 psi	Brass-Steel; Tensile Lap Shear
	21.4 MPa	3100 psi	Stainless-Stainless; Tensile Lap Shear
	22.1 MPa	3200 psi	Steel-Steel; Tensile Lap Shear
	23.4 MPa	3400 psi	Copper-Copper; Tensile Lap Shear

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	
Shrinkage	<= 0.50 %	<= 0.50 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm @Temperature 25.0 °C	>= 1.00e+15 ohm-cm @Temperature 77.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.6 @Frequency 1000 Hz	3.6 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Shelf Life	6.00 Month	6.00 Month	unopened containers

Descriptive Properties	Value	Comments
Appearance	Colorless, transparent liquid	

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