Palm Labs Adhesives TURBO FUSE METHYL FOR METALS (75-95 Viscosity) Rapid Bonding Adhesive

Category : Polymer , Adhesive

Material Notes:

Palm Lab's Methyl Cyanoacrylate is a one component rapid bonding adhesive ideal for metal surfaces. TURBO FUSE METHYL's advanced formula is designed to polymerize instantly by absorbing surface moisture and is specifically formulated to bond various metals including aluminum, stainless steel, and copper, to itself and to a variety of materials including wood, balsa wood, rubber, plastics and leather. Applications include wiper blades, nameplates, gearshift indicators, aerospace parts, automotive and machinery parts, electronic components, transportation equipment, etc. Meets MLLA 46050 Type I Class II specification requirements.Part Numbers for this data: 15-080Methyl, 30-080MethylSoluble in Acetone, MEK, Amide, Methylene ChlorideInformation provided by Palm Laboratories Adhesives

Order this product through the following link:
http://www.lookpolymers.com/polymer_Palm-Labs-Adhesives-TURBO-FUSE-METHYL-FOR-METALS-75-95-Viscosity-Rapid-Bonding-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	Liquid State
Viscosity	75 - 95 cP	75 - 95 cP	Liquid State

Mechanical Properties	Metric	English	Comments
Shear Strength	>= 5.00 MPa	>= 725 psi	ABS; ASTM D1002/DIN 53283
	>= 10.0 MPa	>= 1450 psi	Polycarbonate; ASTM D1002/DIN 53283
	>= 13.0 MPa	>= 1890 psi	Copper; ASTM D1002/DIN 53283
	13.0 - 20.0 MPa	1890 - 2900 psi	Tensile, (Cured State)
	>= 20.0 MPa	>= 2900 psi	Grit Blasted Steel; ASTM D1002/DIN 53283
	>= 20.0 MPa	>= 2900 psi	Etched Aluminum; ASTM D1002/DIN 53283
	>= 20.0 MPa	>= 2900 psi	Stainless Steel; ASTM D1002/DIN 53283

Thermal Properties	Metric	English	Comments
CTE, linear	1.00 µm/m-°C	0.556 µin/in-°F	ASTM D696
Melting Point	160 - 170 °C	320 - 338 °F	Cured State
Maximum Service Temperature, Air	26.7 °C	80.0 °F	Cured State
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	Cured State

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	120 °C	248 °F	ASTM E228
Flash Point	80.0 - 93.3 °C	176 - 200 °F	Liquid State

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.3	2.3	Cured State; ASTM D150
Dielectric Strength	24.98 kV/mm	634.5 kV/in	Cured; ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	1440 min	24.0 hour	Cured State
Shelf Life	12.0 Month	12.0 Month	Liquid State

Descriptive Properties	Value	Comments
Appearance	Clear liquid	Liquid State
	Clear-Hard	Cured State
Base compound (Resin)	Methyl Cyanoacrylate	Liquid State
Chemical Resistance	75% Initial Strength Retained	Gasoline at 22°C, at 1000hrs
	80% Initial Strength Retained	Gasoline at 22°C, at 500hrs
	85% Initial Strength Retained	Isopropanol at 22°C, at 500hrs
	85% Initial Strength Retained	Isopropanol at 22°C, at 1000hrs
	90% Initial Strength Retained	Motor Oil at 40°C, at 500hrs
	90% Initial Strength Retained	Mineral Spirit at 22°C, at 500hrs
	90% Initial Strength Retained	Motor Oil at 40°C, at 1000hrs
	90% Initial Strength Retained	Mineral Spirit at 22°C, at 1000hrs
Gap Fill	0.20 mm	Cured State
Material Set Up Time	10-15 sec	SBR to SBR
	10-20 sec	Copper to Copper
	10-30 sec	Steel to Steel
	15-20 sec	Steel to PVC
	30-60 sec	Stainless Steel to Stainless Steel

Descriptive Properties	Value	Comments
	40-60 sec	Aluminum to Aluminum

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