

Permabond 790 Cyanoacrylate, Surface insensitive

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

Material Notes:

PERMABOND® 790 is a low viscosity, surface insensitive adhesive that will rapidly bond substrates with acidic surfaces such as wood and plated surfaces. Plastics, metals, ceramics and elastomers are also rapidly bonded. The fast cure minimizes the occurrence of frosting and fogging. The wicking viscosity of this product makes it ideal for post-assembly application. Cyanoacrylate adhesives are single component adhesives that polymerize rapidly when pressed into a thin film between parts. The moisture adsorbed on the surface initiates the curing of the adhesive. Strong bonds are developed extremely fast and on a great variety of materials. These properties make PERMABOND® cyanoacrylates the ideal adhesives for high speed production lines. Features & Benefits: Extremely fast setting Rapid development of high strength Ease of use – no mixing or heat cure Surface insensitive 100% reactive, no solvents Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-790-Cyanoacrylate-Surface-insensitive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	2.0 cP @Temperature 25.0 °C	2.0 cP @Temperature 77.0 °F	Uncured
Storage Temperature	2.00 - 7.00 °C	35.6 - 44.6 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ISO 868
Adhesive Bond Strength	18.0 - 22.0 MPa	2610 - 3190 psi	ISO 4587, Shear
Impact	3.0 - 5.0	3.0 - 5.0	kJ/m^2 Adhesive Impact Strength; ASTM D950

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m/m-}^\circ\text{C}$	50.0 $\mu\text{in/in-}^\circ\text{F}$	
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	82.2 °C	180 °F	
Minimum Service Temperature, Air	-62.2 °C	-80.0 °F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.5 @Frequency 10000 Hz	2.5 @Frequency 10000 Hz	

Dielectric Strength Electrical Properties	25.0 kV/mm Metric	635 kV/in English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	0.0333 - 0.0500 min	0.000556 - 0.000833 hour	Steel, handling time
	0.0333 - 0.0500 min	0.000556 - 0.000833 hour	Buna Rubber, set time
	0.0333 - 0.0500 min	0.000556 - 0.000833 hour	Phenolic, set time
	1440 min	24.0 hour	full strength

Descriptive Properties	Value	Comments
Appearance	Colorless	Uncured
Maximum Gap Fill (mm)	0.05	
Strength Retention	10% at 150°C	Relative to 0°C
	100% at 0°C	Relative to 0°C
	30% at 100°C	Relative to 0°C
	55% at -50°C	Relative to 0°C
	90% at 50°C	Relative to 0°C

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