

Permabond 799 Cyanoacrylate, Surface insensitive

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

Material Notes:

PERMABOND® 799 is a high viscosity cyanoacrylate that combines fast cure with the ability to cure through a large gap. Plastics, metals, ceramics and elastomers are also rapidly bonded. The fast cure minimizes the occurrence of frosting and fogging. This adhesive is particularly well-suited for used on porous substrates, since it fixtures before wicking into the surface pores. 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-799-Cyanoacrylate-Surface-insensitive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	5000 cP @Temperature 25.0 °C	5000 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	20.0 - 22.0 MPa	2900 - 3190 psi	Steel, Shear; ISO 4587
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	

Electrical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	0.133 min	0.00222 hour	Steel, handling time
	0.133 min	0.00222 hour	Buna N Rubber, handling time
	0.133 min	0.00222 hour	Phenolic, handling time
	1440 min	24.0 hour	full strength

Descriptive Properties	Value	Comments
Appearance	Colorless	Uncured
Maximum Gap Fill (mm)	0.5	
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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