

Permabond 795 Cyanoacrylate, Surface insensitive

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

Material Notes:

PERMABOND® 795 is a moderate 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. 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-795-Cyanoacrylate-Surface-insensitive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	500 cP @Temperature 25.0 °C	500 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	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 $\mu\text{m/m} \cdot ^\circ\text{C}$	50.0 $\mu\text{in/in} \cdot ^\circ\text{F}$	
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.5 @Frequency 10000 Hz	2.5 @Frequency 10000 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	

Processing Properties	Metric	English	Comments
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Cure Time Processing Properties	0.0667 min Metric	0.00111 hour English	Steel handling time Comments
	0.0667 min	0.00111 hour	Buna N Rubber, handling time
	0.0667 min	0.00111 hour	Phenolic, handling time
	1440 min	24.0 hour	full strength

Descriptive Properties	Value	Comments
Appearance	Colorless	Uncured
Maximum Gap Fill (mm)	0.18	
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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