

Permabond 2010 Cyanoacrylate, gap filling

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

Material Notes:

PERMABOND 200 is a high viscosity product with good flow control useful in wire tacking applications or bonding components. It is fast setting and suitable for use on plastics, rubber and metals. 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 and Benefits: Fast setting and fixturing of parts Rapid development of high strength Ease of use- no mixing, no heat cure Bonds most materials 100% reactive, no solvents Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-2010-Cyanoacrylate-gap-filling.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	2000 - 2500 cP @Temperature 25.0 °C	2000 - 2500 cP @Temperature 77.0 °F	at 20 rpm vibration
	10000 - 20000 cP @Temperature 25.0 °C	10000 - 20000 cP @Temperature 77.0 °F	at 2 rpm vibration
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	>= 5.00 MPa	>= 725 psi	PC, Substrate Failure, Shear; ISO 4587
	>= 6.00 MPa	>= 870 psi	PVC, Substrate Failure, Shear; ISO 4587
	>= 6.00 MPa	>= 870 psi	ABS, Substrate Failure, Shear; ISO 4587
	7.00 - 9.00 MPa	1020 - 1310 psi	Aluminum, Shear; ISO 4587
	10.0 MPa	1450 psi	Zinc, Shear; ISO 4587
	14.0 MPa	2030 psi	Phenolic, Shear; ISO 4587
	19.0 - 23.0 MPa	2760 - 3340 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 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	25.0 kV/mm	635 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	0.167 - 0.250 min	0.00278 - 0.00417 hour	Phenolic, handling time
	0.167 - 0.250 min	0.00278 - 0.00417 hour	Buna N Rubber, handling time
	0.167 - 0.250 min	0.00278 - 0.00417 hour	Steel, 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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