

Permabond 2050 Cyanoacrylate, flexible

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

Material Notes:

PERMABOND® 2050 is a flexible cyanoacrylate adhesive, exhibiting improved peel strengths when compared to other grades. It has excellent impact and vibration resistance, and is suitable for bonding dissimilar materials which could be subject to thermal shock or thermal cycling. 2050 is ideal for use on flexible or semiporous surfaces. It can also be used to bond silicone when used in conjunction with Permabond Polyolefin Primer (POP). Features & Benefits: Medium-high viscosity Flexible and toughened Fast cure Easy to apply and dispense 100% reactive, no solvents Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-2050-Cyanoacrylate-flexible.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	1200 - 1800 cP @Temperature 25.0 °C	1200 - 1800 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	>= 5.00 MPa	>= 725 psi	PC, Substrate Failure, Shear; ISO 4587
	>= 6.00 MPa	>= 870 psi	ABS, Substrate Failure, Shear; ISO 4587
	>= 6.00 MPa	>= 870 psi	PVC, Substrate Failure, Shear; ISO 4587
	16.0 - 20.0 MPa	2320 - 2900 psi	Steel, Shear; ISO 4587
Impact	5.0 - 10	5.0 - 10	kJ/m ² Adhesive Impact Strength; ASTM D950

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft²-°F	

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

Electrical Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Processing Properties	Metric	English	Comments
Cure Time	0.0833 - 0.167 min	0.00139 - 0.00278 hour	Buna N Rubber, handling time
	0.0833 - 0.167 min	0.00139 - 0.00278 hour	PVC, 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)	0.2	
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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China