

Permabond 735 Cyanoacrylate, toughened

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

Material Notes:

PERMABOND® 735 is a toughened cyanoacrylate with very good impact and peel strength when compared to a conventional cyanoacrylate. It bonds rapidly at room temperature and its viscosity is stable over the shelf life of the product. This provides consistent performance. The product adheres to a variety of surfaces including steel, aluminum, galvanized steel, plastics and elastomers. Features & Benefits: Longer cure allows accurate alignment Toughened and flexible Ease of use – no mixing or heat cure Black - so suitable for dark surfaces 100% reactive, no solvents Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-735-Cyanoacrylate-toughened.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Uncured
Viscosity	100 - 200 cP	100 - 200 cP	Uncured
	@Temperature 25.0 °C	@Temperature 77.0 °F	
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
	13.0 - 15.0 MPa	1890 - 2180 psi	Aluminum, Shear; ISO 4587
	24.0 - 30.0 MPa	3480 - 4350 psi	Steel, Shear; ISO 4587
Impact	5.0 - 10	5.0 - 10	kJ/m² Adhesive Impact Strength; ASTM D950
Peel Strength	1.60 - 2.40 kN/m	9.13 - 13.7 pli	ASTM D903

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	2.5	
	@Frequency 10000 Hz	@Frequency 10000 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	0.0833 - 0.167 min	0.00139 - 0.00278 hour	Phenolic, handling time
	0.167 - 0.250 min	0.00278 - 0.00417 hour	Buna N Rubber, handling time
	0.500 - 0.833 min	0.00833 - 0.0139 hour	Steel, handling time
	0.583 - 0.833 min	0.00972 - 0.0139 hour	Aluminum, handling time
	1440 min	24.0 hour	full strength

Descriptive Properties	Value	Comments
Appearance	Black	Uncured
Maximum Gap Fill (mm)	0.15	
Strength Retention	10% at 150°C	Relative to 0°C
	100% at 0°C	Relative to 0°C
	50% at 100°C	Relative to 0°C
	75% 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