

Permabond TA436 Toughened Acrylic Adhesive

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

Material Notes:

PERMABOND TA436 is a structural acrylic adhesive designed primarily for bonding metals, ferrites, ceramics and some thermoplastics.

Permabond TA436 is a no-mix system which obtains handling strength 1-3 minutes when the adhesive and the Initiator 43 come in contact.

Permabond TA436 offers high shear and impact resistant bonds and improved high temperature resistance. Features & Benefits: Adhesion to a wide variety of substrates Fast cure at room temperature No mix application High shear and peel strength Good impact strength High temperature resistance Information provided by Permabond.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Permabond-TA436-Toughened-Acrylic-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	uncured
Viscosity	16000 - 18000 cP @Temperature 25.0 °C	16000 - 18000 cP @Temperature 77.0 °F	Uncured
Storage Temperature	5.00 - 25.0 °C	41.0 - 77.0 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	25.0 MPa	3630 psi	DIN 53288
Adhesive Bond Strength	15.0 - 25.0 MPa	2180 - 3630 psi	Mild steel, Shear
Impact	25	25	kJ/m ² Adhesive Impact Strength; ASTM D950
Peel Strength	1.80 - 2.60 kN/m	10.3 - 14.8 pli	ISO 4578

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ASTM D696
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft ² -°F	ASTM C177

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	ASTM D257
Dielectric Constant	4.6 @Frequency 1.00e+7 Hz	4.6 @Frequency 1.00e+7 Hz	ASTM D150
Dielectric Strength	30.0 - 50.0 kV/mm	762 - 1270 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	1.00 - 3.00 min	0.0167 - 0.0500 hour	handling time
	30.0 - 60.0 min	0.500 - 1.00 hour	working strength
	1440 min	24.0 hour	full cure
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Amber liquid	Uncured
Maximum Gap Fill (mm)	0.5	
Strength Retention	100% at 0°C	Relative to 0°C
	15% at 175°C	Relative to 0°C
	22% at 150°C	Relative to 0°C
	75% at 100°C	Relative to 0°C
	96% at 50°C	Relative to 0°C

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