Permabond TA435 Toughened Acrylic Adhesive & Initiator

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

Material Notes:

PERMABOND TA435 is a structural acrylic adhesive designed primarily for bonding metals, ferrites, ceramics and some thermoplastics. This adhesive may be used in a variety of structural bonding applications, due to its versatile performance capabilities. TA435 provides high strength while maintaining excellent flexibility, resulting in tough, durable bonds with outstanding impact and peel resistance. Handling strength is achieved in a few minutes at room temperature by using Permabond Initiator 41. Mix ratio 10:1.5 (adhesive:initiator). 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 Good chemical resistance Information provided by Permabond.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Permabond-TA435-Toughened-Acrylic-Adhesive-Initiator.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in³	uncured
Viscosity	85000 - 95000 cP @Temperature 25.0 °C	85000 - 95000 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/m² Adhesive Impact Strength; ASTM D950
Peel Strength	3.40 - 4.00 kN/m	19.4 - 22.8 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-ft²-°F	ASTM C177
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-53.9 °C	-65.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	ASTM D257
	4.6	4.6	

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+7 Hz	@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	<= 2.00 min	<= 0.0333 hour	handling time, gap ~0mm
	10.0 min	0.167 hour	handling time, .25 mm gap
	20.0 min	0.333 hour	handling time, .5 mm gap
	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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