

Permabond TA4300 Toughened Acrylic Adhesive

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

Material Notes:

PERMABOND® TA4300 is a 2-part, 1:1 toughened acrylic adhesive. Its toughening makes it ideal for bonding dissimilar materials where differential thermal expansion and contraction could be an issue. It cures rapidly at room temperature and has good gap filling properties. It is ideal for use on a variety of metals and gives particularly high bond strength on aluminum surfaces. Features & Benefits: Adhesion to a wide variety of substrates Fast cure at room temperature Easy to apply through static mixer nozzle 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-TA4300-Toughened-Acrylic-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	TA4300A
	1.05 g/cc	0.0379 lb/in ³	TA4300B
Storage Temperature	2.00 - 7.00 °C	35.6 - 44.6 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	22.0 - 24.0 MPa	3190 - 3480 psi	DIN 53288
Adhesive Bond Strength	20.0 - 22.0 MPa	2900 - 3190 psi	Mild steel, Shear
Peel Strength	6.00 - 7.20 kN/m	34.2 - 41.1 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	4.6	ASTM D150
	@Frequency 1.00e+7 Hz	@Frequency 1.00e+7 Hz	
Dielectric Strength	30.0 - 50.0 kV/mm	762 - 1270 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	4.98 - 10.0 min	0.0830 - 0.167 hour	handling time

Processing Properties	15.0 - 30.0 min Metric	0.250 - 0.500 hour English	working strength Comments
	1440 min	24.0 hour	full cure
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Brown TA4300B, Thixotropic paste	Uncured
	Off-white TA4300A, Thixotropic paste	Uncured
Maximum Gap Fill (mm)	2	
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
	80% at 100°C	Relative to 0°C
	96% at 50°C	Relative to 0°C

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