

Permabond TA4310 Toughened Acrylic Adhesive

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

Material Notes:

PERMABOND® TA4310 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 is easy to use with a delayed initiation, allowing accurate alignment of components. The strength develops quickly allowing clamps to be removed and a quick turnaround time when used in a production situation. 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-TA4310-Toughened-Acrylic-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	TA4310B
	1.05 g/cc	0.0379 lb/in ³	TA4310A
Storage Temperature	2.00 - 7.00 °C	35.6 - 44.6 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	28.0 MPa	4060 psi	DIN 53288
Adhesive Bond Strength	24.0 - 26.0 MPa	3480 - 3770 psi	Mild steel, Shear
Peel Strength	1.80 - 3.60 kN/m	10.3 - 20.5 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	10.0 - 15.0 min	0.167 - 0.250 hour	handling time

Processing Properties	25.0 - 30.0 min Metric	0.417 - 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 TA4310B, Thixotropic paste	Uncured
	Off-white TA4310A, 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

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