

Tra-Con Tra-Bond Ablebond 724-1 Polyurethane Adhesive

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS

Material Notes:

Ablebond 724-1 premixed and frozen, polyurethane adhesive is designed for good adhesion, providing strong resilient bonds to a wide variety of substrates. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-Ablebond-724-1-Polyurethane-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Mixed, @ 75°F

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	86	86	
Tensile Strength, Yield	31.7 MPa	4600 psi	
Elongation at Yield	450 %	450 %	
Compressive Strength	0.0621 MPa	9.00 psi	Method A, 22 hrs @ 158°F under 1350 psi
	0.179 MPa	26.0 psi	Method B, 22 hrs @ 158°F
Adhesive Bond Strength	13.8 MPa	2000 psi	Lap shear, alum to alum
Tear Strength	12.3 kN/m	70.0 pli	Split
Graves Tear Strength	96.4 kN/m	550 pli	
Abrasion	175	175	Abrasion Index (Bureau of Standards)

Thermal Properties	Metric	English	Comments
CTE, linear	95.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	52.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 23.9 - 100 $^\circ\text{C}$	@Temperature 75.0 - 212 $^\circ\text{F}$	
	101 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	56.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 0.000 - 649 $^\circ\text{C}$	@Temperature 32.0 - 1200 $^\circ\text{F}$	
	143 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	79.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 0.000 - 23.9 $^\circ\text{C}$	@Temperature 32.0 - 75.0 $^\circ\text{F}$	
Thermal Conductivity	1.59 W/m-K	11.0 BTU-in/hr-ft ² -°F	

Shrinkage Thermal Properties	1.0% Metric	1.0% English	Linear Comments
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Processing Properties	Metric	English	Comments
Cure Time	180 min	3.00 hour	
	@Temperature 73.9 °C	@Temperature 165 °F	
Pot Life	60 min	60 min	
Shelf Life	2.00 Month	2.00 Month	
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Descriptive Properties	Value	Comments
Color	Clear, Amber	

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