

Aquabond Technologies Aquabond™ ABS-65 Water Soluble Adhesive and Bonding Thermoplastic

Category : Polymer , Adhesive , Thermoplastic , Adhesives, Sealants, and Coatings

Material Notes:

Description: Aquabond's water soluble thermoplastic is designed for temporary mounting of hard materials for slicing, dicing, grinding, lapping and polishing and comes in 3 different bonding temperatures that can be purchased in either stick or bulk form. All products are virtually insoluble in cold or cool water, thus providing a strong bond in the presence of aqueous cutting lubricants and coolants. All Aquabond thermoplastic adhesives when submerged in HOT water will go to solution and not return. The use of Aquaclean 900 and ultrasonic or air agitation greatly speeds debonding and aids in producing very clean finished parts. As long as the work piece is non-hazardous, and you already have the proper approvals, the solution can be poured down the drain. All Aquabond thermoplastic temporary adhesives come in either 100 gram bulk ingots or in 45 gram 5/8 inch diameter sticks for easy application. Aquabond 85 has the highest melting and bonding temperature and is used as a backfill for bonding parts that are not flat. It is also used for grooving, cutting, slicing and dicing hard, single crystal materials. This product has higher tensile strength than other thermoplastics without being brittle.

Information provided by Aquabond Technologies.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aquabond-Technologies-Aquabond-ABS-65-Water-Soluble-Adhesive-and-Bonding-Thermoplastic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	
Solubility	<= 1000 ppm	<= 1000 ppm	at 25°C
	1.00e+6 ppm	1.00e+6 ppm	at 80°C
Viscosity	<= 3000 cP	<= 3000 cP	
	@Temperature 75.0 °C	@Temperature 167 °F	

Mechanical Properties	Metric	English	Comments
Penetration	5.0	5.0	at 25°C

Thermal Properties	Metric	English	Comments
Melting Point	60.0 - 65.0 °C	140 - 149 °F	
Boiling Point	>= 300 °C	>= 572 °F	
Softening Point	55.0 - 60.0 °C	131 - 140 °F	
Flash Point	196 °C	385 °F	closed cup

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	40.0 - 55.0 °C Metric	104 - 131 °F English	Tacking Temperature Comments
	90.0 - 110 °C	194 - 230 °F	Bonding Temperature
Cure Time	30.0 min	0.500 hour	Cooling time

Descriptive Properties	Value	Comments
Color	Orange	
Debond/Cleanup	Hot DI Water and Aquaclean 900	Use of ultrasonic or injected air cleaning speeds debonding in all systems

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