

Resinlab® AR 4305 HP Metal Bonding Methacrylate Adhesive

Category : Polymer , Adhesive , Thermoset , Methacrylate , Methacrylate Adhesive

Material Notes:

Resinlab™ AR 4305 HP is a 1:1 mix methacrylate-based structural adhesive designed for general purpose bonding of a wide variety of materials in industrial applications. AR 4305 HP forms tough, durable bonds to most plastics, composites, metals, ceramics. It contains special adhesion promoters to enhance performance on hard to bond materials such as nylon, chrome and rubber. Surface cleaning or preparation, or the use of primers, or chemical wipes is not required in almost all cases. It has excellent adhesion to as received metals such as aluminum, stainless, galvanized and plated steels. The cure time was designed for high speed manufacturing processes where fast fixturing is required. AR 4305 HP is easily dispensed from packaged cartridges or with commercial dispensing equipment as a non-sag, creamy gel, with no stringing. The product was designed to be used with static mixer tubes and has a balanced viscosity between parts. There are no abrasive fillers or extenders to reduce performance or cause wear in dispensing equipment. Information Provided by Resinlab L.L.C., an Ellsworth Adhesives Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resinlab-AR-4305-HP-Metal-Bonding-Methacrylate-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	250000 cP	250000 cP	Part A, Spindle TD, 2.5 rpm; Uncured
	280000 cP	280000 cP	Spindle TD, 2.5 rpm; Curing
	300000 cP	300000 cP	Part B, Spindle TD, 2.5 rpm; Uncured

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	Cured
Elongation at Yield	15 %	15 %	Cured
Adhesive Bond Strength	24.1 MPa	3500 psi	alum/aluminum
	27.6 MPa	4000 psi	steel/steel
Impact	>= 13	>= 13	[J/in ²]; FRP/FRP; auto side impact
Peel Strength	>= 5.26 kN/m	>= 30.0 pli	steel/steel

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	Cured
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Flash Point	10.6 °C	51.0 °F	LCC; Uncured

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
	Off White	Part A; Uncured
Fixture Time (minutes)	9-10	Curing
Mix Ratio	1:1	Weight and Volume; Uncured
Working Time (minutes)	5-6	Curing

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