

Resinlab® AR 4305 Metal Bonding Methacrylate Adhesive

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

Material Notes:

Resinlab™ AR 4305 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 forms tough, durable bonds to most plastics, composites, metals, ceramics, and woods in all combinations. Surface cleaning or preparation, or the use of primers, or chemical wipes is not required in almost all cases. AR 4305 is a fast curing product with gelling of the mixed adhesive within 6-8 minutes and fixture in 10-15 minutes at room temperature. The cure time was designed for high speed manufacturing processes where fast fixturing is required. AR 4305 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-Metal-Bonding-Methacrylate-Adhesive.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	Cured
Elongation at Yield	40 %	40 %	Cured
Adhesive Bond Strength	24.1 MPa	3500 psi	alum/aluminum
	27.6 MPa	4000 psi	steel/steel
Impact	>= 21	>= 21	[KJ/m ²]; FRP/FRP; auto side impact
Peel Strength	>= 3.51 kN/m	>= 20.0 pli	steel/steel

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	Cured
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	
Flash Point	10.6 °C	51.0 °F	LCC; Uncured

Descriptive Properties	Value	Comments
Color	Amber	Part B; Uncured

Descriptive Properties	Value Natural	Comments Part A, Uncured
Fixture Time (minutes)	10-15	Curing
Mix Ratio	1:1	Weight and Volume; Uncured
Working Time (minutes)	6-8	Curing

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