

Resinlab® AR 4400 Metal & Composite Bonding Methacrylate Adhesive

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

Material Notes:

Resinlab™ AR 4400 is a 1:1 mix methacrylate-based structural adhesive formulated to bond almost all engineered thermoplastics, thermosets, composites, and metal structural elements together in any combination. It has excellent adhesion to as-received metal surfaces including aluminum, stainless and plated steels, and forms tough, high strength bonds without surface preparation, primers, or chemical wipes. It features a long open time for assembly flexibility to allow for positioning and multiple operations, but quickly attains fixturing strength once clamped together. AR 4400 has outstanding durability and environmental resistance to many common industrial solvents, fuels, lubricants, and environmental conditions. This product is formulated as a non-sag, creamy gel with matched viscosity for both parts, and is easy to dispense through static mixer tubes and other 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-4400-Metal-Composite-Bonding-Methacrylate-Adhesive.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	Cured
Elongation at Yield	60 %	60 %	Cured
Adhesive Bond Strength	19.0 MPa	2750 psi	alum/aluminum
	22.8 MPa	3300 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	-40.0 °C	-40.0 °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)	30-40	after assembly; Curing
Mix Ratio	1:1	Weight and Volume; Uncured
Working Time (minutes)	90	Curing

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