

## Resinlab® AR 4315 HP Metal Bonding Methacrylate Adhesive

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

### Material Notes:

Resinlab™ AR 4315 HP 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 contains special adhesion promoters to enhance performance on hard to bond materials such as nylon, chrome and rubber. It features a medium cure time for assembly flexibility to allow for positioning and multiple operations, but provides for faster fixturing. AR 4315 HP 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-4315-HP-Metal-Bonding-Methacrylate-Adhesive.php](http://www.lookpolymers.com/polymer_Resinlab-AR-4315-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	70	70	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 <sup>2</sup> ]; 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)	18-20	Curing
Mix Ratio	1:1	Weight and Volume; Uncured
Working Time (minutes)	10-12	Curing

**Contact Songhan Plastic Technology Co.,Ltd.**

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