

## Overview of materials for Methacrylate Adhesive

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

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Methacrylate Adhesive". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Overview-of-materials-for-Methacrylate-Adhesive.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Methacrylate-Adhesive.php)

Physical Properties	Metric	English	Comments
Density	0.500 - 1.20 g/cc	0.0181 - 0.0434 lb/in <sup>3</sup>	Average value: 1.03 g/cc Grade Count:48
Viscosity	12.0 - 950000 cP	12.0 - 950000 cP	Average value: 118000 cP Grade Count:64

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60.0 - 70.0	60.0 - 70.0	Average value: 64.4 Grade Count:8
Tensile Strength, Ultimate	7.60 - 31.0 MPa	1100 - 4500 psi	Average value: 17.1 MPa Grade Count:30
	0.0965266 - 0.0965266 MPa @Temperature 18.3 - 149 °C	14.0000 - 14.0000 psi @Temperature 65.0 - 300 °F	Average value: 0.0965 MPa Grade Count:1
Elongation at Break	5.00 - 180 %	5.00 - 180 %	Average value: 77.1 % Grade Count:39
Elongation at Yield	15.0 - 70.0 %	15.0 - 70.0 %	Average value: 36.3 % Grade Count:8
Modulus of Elasticity	0.0689 - 1.90 GPa	10.0 - 275 ksi	Average value: 0.579 GPa Grade Count:25
Shear Strength	1.00 - 32.0 MPa	145 - 4640 psi	Average value: 11.2 MPa Grade Count:44
Adhesive Bond Strength	0.600 - 29.0 MPa	87.0 - 4200 psi	Average value: 19.5 MPa Grade Count:23
Tensile Impact Strength	35.7 - 46.2 kJ/m <sup>2</sup>	17.0 - 22.0 ft-lb/in <sup>2</sup>	Average value: 41.3 kJ/m <sup>2</sup> Grade Count:9
Peel Strength	1.75 - 11.4 kN/m	10.0 - 65.0 pli	Average value: 5.00 kN/m Grade Count:18

Thermal Properties	Metric	English	Comments
CTE, linear	0.800 µm/m-°C	0.444 µin/in-°F	Average value: 0.800 µm/m-°C Grade Count:20

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.300 J/g-°C	0.0717 BTU/lb-°F	Average value: 0.300 J/g-°C Grade Count:20
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft <sup>2</sup> -°F	Average value: 0.100 W/m-K Grade Count:20
Maximum Service Temperature, Air	82.2 - 121 °C	180 - 250 °F	Average value: 118 °C Grade Count:45
Minimum Service Temperature, Air	-55.0 - -40.0 °C	-67.0 - -40.0 °F	Average value: -51.7 °C Grade Count:39
Flash Point	10.6 - 82.2 °C	51.0 - 180 °F	Average value: 22.5 °C Grade Count:50

Processing Properties	Metric	English	Comments
Cure Time	1.50 - 1440 min	0.0250 - 24.0 hour	Average value: 372 min Grade Count:32
Pot Life	1.00 - 105 min	1.00 - 105 min	Average value: 23.8 min Grade Count:25
	45.0 - 45.0 min	45.0 - 45.0 min	Average value: 45.0 min Grade Count:1
	@Temperature 95.0 - 95.0 °C	@Temperature 203 - 203 °F	

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