

## Overview of materials for Epoxy Adhesive, Flexible

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive, Flexible

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Epoxy Adhesive, Flexible". 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-Epoxy-Adhesive-Flexible.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Epoxy-Adhesive-Flexible.php)

Physical Properties	Metric	English	Comments
Density	0.910 - 1.28 g/cc	0.0329 - 0.0462 lb/in <sup>3</sup>	Average value: 1.07 g/cc Grade Count:3
Water Absorption	0.700 - 12.2 %	0.700 - 12.2 %	Average value: 4.98 % Grade Count:14
Viscosity	550 - 350000 cP	550 - 350000 cP	Average value: 27500 cP Grade Count:27

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	21.0 - 94.0	21.0 - 94.0	Average value: 56.4 Grade Count:5
	11.0 - 98.0 @Temperature 0.000 - 75.0 °C	11.0 - 98.0 @Temperature 32.0 - 167 °F	Average value: 45.6 Grade Count:6
Hardness, Shore D	60.0 - 89.0	60.0 - 89.0	Average value: 79.3 Grade Count:15
	15.0 - 90.0 @Temperature -60.0 - 75.0 °C	15.0 - 90.0 @Temperature -76.0 - 167 °F	Average value: 73.8 Grade Count:14
Tensile Strength, Ultimate	0.172 - 86.6 MPa	25.0 - 12600 psi	Average value: 23.7 MPa Grade Count:20
Elongation at Break	3.20 - 190 %	3.20 - 190 %	Average value: 78.0 % Grade Count:20
Shear Strength	1.45 - 41.9 MPa	210 - 6080 psi	Average value: 19.2 MPa Grade Count:20
	0.690 - 36.887 MPa @Temperature -55.0 - 121 °C	100 - 5350.0 psi @Temperature -67.0 - 250 °F	Average value: 12.6 MPa Grade Count:20
Adhesive Bond Strength	9.65 - 36.5 MPa	1400 - 5300 psi	Average value: 25.7 MPa Grade Count:8
	1.72369 - 30.3369 MPa	250.000 - 4400.01 psi	Average value: 16.9 MPa Grade

Mechanical Properties	@Temperature -54.4 - 32.2 °C Metric	@Temperature -66.0 - 180 °F English	Count:8 Comments
Peel Strength	5.26 - 7.01 kN/m	30.0 - 40.0 pli	Average value: 6.57 kN/m Grade Count:4

Thermal Properties	Metric	English	Comments
CTE, linear	13.0 - 73.0 µm/m-°C	7.22 - 40.6 µin/in-°F	Average value: 34.8 µm/m-°C Grade Count:6
Glass Transition Temp, Tg	42.0 - 115 °C	108 - 239 °F	Average value: 73.8 °C Grade Count:6

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.00e+8 - 4.40e+16 ohm-cm	4.00e+8 - 4.40e+16 ohm-cm	Average value: 2.22e+15 ohm-cm Grade Count:14
	2.90e+7 - 2.50e+13 ohm-cm @Temperature 100 - 150 °C	2.90e+7 - 2.50e+13 ohm-cm @Temperature 212 - 302 °F	Average value: 1.03e+12 ohm-cm Grade Count:10

Processing Properties	Metric	English	Comments
Processing Temperature	20.0 - 149 °C	68.0 - 300 °F	Average value: 68.7 °C Grade Count:12
Cure Time	120 - 120 min @Temperature 80.0 - 80.0 °C	2.00 - 2.00 hour @Temperature 176 - 176 °F	Average value: 120 min Grade Count:2
Pot Life	9.00 - 180 min	9.00 - 180 min	Average value: 64.2 min Grade Count:28

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