

Overview of materials for Acrylic, Impact Modified Sheet

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified Sheet

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Acrylic, Impact Modified Sheet". 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-Acrylic-Impact-Modified-Sheet.php

Physical Properties	Metric	English	Comments
Density	1.15 - 1.18 g/cc	0.0415 - 0.0426 lb/in ³	Average value: 1.16 g/cc Grade Count:6
Water Absorption	0.300 %	0.300 %	Average value: 0.300 % Grade Count:5
Linear Mold Shrinkage	0.00300 - 0.00600 cm/cm	0.00300 - 0.00600 in/in	Average value: 0.00450 cm/cm Grade Count:4

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	45.0 - 82.0	45.0 - 82.0	Average value: 63.0 Grade Count:6
Tensile Strength, Yield	39.0 - 62.0 MPa	5660 - 8990 psi	Average value: 51.3 MPa Grade Count:4
Modulus of Elasticity	1.70 - 2.60 GPa	247 - 377 ksi	Average value: 2.26 GPa Grade Count:5
Flexural Yield Strength	57.0 - 97.0 MPa	8270 - 14100 psi	Average value: 79.0 MPa Grade Count:6
Izod Impact, Notched	0.340 - 1.10 J/cm	0.637 - 2.06 ft-lb/in	Average value: 0.728 J/cm Grade Count:5
	0.200 - 0.500 J/cm @Temperature -18.0 - -18.0 °C	0.375 - 0.937 ft-lb/in @Temperature -0.400 - -0.400 °F	Average value: 0.325 J/cm Grade Count:4
Gardner Impact	1.90 - 8.50 J	1.40 - 6.27 ft-lb	Average value: 4.24 J Grade Count:5

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 - 90.0 µm/m-°C	30.0 - 50.0 µin/in-°F	Average value: 72.0 µm/m-°C Grade Count:5
Deflection Temperature at 1.8 MPa (264 psi)	82.0 - 149 °C	180 - 300 °F	Average value: 100 °C Grade Count:5

Optical Properties	Metric	English	Comments
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Optical Properties	Metric1.00 %	English00 %	Comments
Transmission, Visible	90.0 - 92.0 %	90.0 - 92.0 %	Value: 2.50 % Grade Count:4 Average value: 90.8 % Grade Count:5

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China