

Overview of materials for Polycarbonate/Styrenic Alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Styrenic Alloy

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polycarbonate/Styrenic Alloy". 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-PolycarbonateStyrenic-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.08 - 1.13 g/cc	0.0390 - 0.0408 lb/in ³	Average value: 1.11 g/cc Grade Count:5
Linear Mold Shrinkage	0.00400 cm/cm	0.00400 in/in	Average value: 0.00400 cm/cm Grade Count:5

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	92.0 - 120	92.0 - 120	Average value: 111 Grade Count:5
Tensile Strength, Ultimate	48.0 - 76.0 MPa	6960 - 11000 psi	Average value: 61.4 MPa Grade Count:5
Elongation at Break	14.0 - 160 %	14.0 - 160 %	Average value: 65.8 % Grade Count:5
Flexural Yield Strength	68.0 - 131 MPa	9860 - 19000 psi	Average value: 100 MPa Grade Count:5
Flexural Modulus	2.00 - 2.90 GPa	290 - 421 ksi	Average value: 2.54 GPa Grade Count:5
Izod Impact, Notched	0.690 - 6.57 J/cm	1.29 - 12.3 ft-lb/in	Average value: 4.11 J/cm Grade Count:5
Izod Impact, Unnotched	8.01 J/cm - NB	15.0 ft-lb/in - NB	Average value: 8.54 J/cm Grade Count:5

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	124 - 138 °C	255 - 280 °F	Average value: 130 °C Grade Count:5
Deflection Temperature at 1.8 MPa (264 psi)	102 - 116 °C	216 - 241 °F	Average value: 109 °C Grade Count:5
Glass Transition Temp, Tg	145 - 150 °C	293 - 302 °F	Average value: 148 °C Grade Count:5

Processing Properties	Metric	English	Comments
Melt Temperature	246 - 277 °C	475 - 531 °F	Average value: 262 °C 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