

Overview of materials for Polycarbonate/Polysulfone Alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polysulfone Alloy , Polysulfone (PSU)

Material Notes:

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

Physical Properties	Metric	English	Comments
Density	1.22 - 1.53 g/cc	0.0441 - 0.0553 lb/in ³	Average value: 1.35 g/cc Grade Count:7
Filler Content	10.0 - 20.0 %	10.0 - 20.0 %	Average value: 16.7 % Grade Count:3
Water Absorption	0.180 - 0.200 %	0.180 - 0.200 %	Average value: 0.193 % Grade Count:3
Linear Mold Shrinkage	0.00150 - 0.0100 cm/cm	0.00150 - 0.0100 in/in	Average value: 0.00450 cm/cm Grade Count:7

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	65.5 - 138 MPa	9500 - 20000 psi	Average value: 95.2 MPa Grade Count:7
Elongation at Break	1.50 - 100 %	1.50 - 100 %	Average value: 18.4 % Grade Count:7
Modulus of Elasticity	2.34 - 11.0 GPa	340 - 1600 ksi	Average value: 5.60 GPa Grade Count:7
Flexural Yield Strength	93.1 - 207 MPa	13500 - 30000 psi	Average value: 142 MPa Grade Count:7
Flexural Modulus	2.62 - 10.7 GPa	380 - 1550 ksi	Average value: 5.33 GPa Grade Count:7
Izod Impact, Notched	0.534 - 1.07 J/cm	1.00 - 2.00 ft-lb/in	Average value: 0.839 J/cm Grade Count:7
Izod Impact, Unnotched	3.20 - 5340 J/cm	6.00 - 10000 ft-lb/in	Average value: 8.10 J/cm Grade Count:7

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	149 - 163 °C	300 - 325 °F	Average value: 154 °C Grade Count:7
Flammability, UL94	V-2 - V-0	V-2 - V-0	Grade Count:5

Processing Properties	Metric	English	Comments
Melt Temperature	282 - 327 °C	540 - 620 °F	Average value: 304 °C Grade Count:5
Mold Temperature	65.6 - 98.9 °C	150 - 210 °F	Average value: 82.2 °C Grade Count:7
Drying Temperature	121 °C	250 °F	Average value: 121 °C Grade Count:5
Moisture Content	0.0200 %	0.0200 %	Average value: 0.0200 % Grade Count:5
Dew Point	-28.9 °C	-20.0 °F	Average value: -28.9 °C Grade Count:5
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:7

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