

## Overview of materials for Polycarbonate, NCG Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, NCG Filled

### Material Notes:

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

Physical Properties	Metric	English	Comments
Density	1.20 - 1.58 g/cc	0.0434 - 0.0571 lb/in <sup>3</sup>	Average value: 1.37 g/cc Grade Count:21
Filler Content	5.00 - 40.0 %	5.00 - 40.0 %	Average value: 16.4 % Grade Count:16
Water Absorption	0.120 - 0.200 %	0.120 - 0.200 %	Average value: 0.133 % Grade Count:12
Additive Loading	15.0 - 40.0 %	15.0 - 40.0 %	Average value: 26.3 % Grade Count:4
Linear Mold Shrinkage	0.000500 - 0.00300 cm/cm	0.000500 - 0.00300 in/in	Average value: 0.00150 cm/cm Grade Count:21

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	68.9 - 179 MPa	10000 - 26000 psi	Average value: 107 MPa Grade Count:21
Elongation at Break	0.500 - 5.00 %	0.500 - 5.00 %	Average value: 1.79 % Grade Count:21
Modulus of Elasticity	5.86 - 22.1 GPa	850 - 3200 ksi	Average value: 10.4 GPa Grade Count:21
Flexural Yield Strength	103 - 248 MPa	15000 - 36000 psi	Average value: 154 MPa Grade Count:21
Flexural Modulus	4.83 - 19.3 GPa	700 - 2800 ksi	Average value: 9.22 GPa Grade Count:21
Izod Impact, Notched	0.534 - 2.67 J/cm	1.00 - 5.00 ft-lb/in	Average value: 0.778 J/cm Grade Count:21
Izod Impact, Unnotched	1.87 - 6.14 J/cm	3.50 - 11.5 ft-lb/in	Average value: 3.36 J/cm Grade Count:19

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 - 149 °C	275 - 300 °F	Average value: 144 °C Grade Count:8
Deflection Temperature at 1.8 MPa	129 - 149 °C	265 - 300 °F	

(264 psi) Thermal Properties	Metric	English	Average value: 139 °C Grade Count:10 Comments
Flammability, UL94	HB - V-0	HB - V-0	Grade Count:13

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00 - 100 ohm-cm	1.00 - 100 ohm-cm	Average value: 23.3 ohm-cm Grade Count:20
Surface Resistance	1.00 - 1.00e+6 ohm	1.00 - 1.00e+6 ohm	Average value: 79600 ohm Grade Count:20
Static Decay	0.500 - 2.00 sec	0.500 - 2.00 sec	Average value: 1.84 sec Grade Count:19

Processing Properties	Metric	English	Comments
Processing Temperature	249 - 293 °C	480 - 560 °F	Average value: 277 °C Grade Count:12
Melt Temperature	288 - 338 °C	550 - 640 °F	Average value: 304 °C Grade Count:9
Mold Temperature	65.6 - 121 °C	150 - 250 °F	Average value: 97.0 °C Grade Count:21
Drying Temperature	121 - 121 °C	250 - 250 °F	Average value: 121 °C Grade Count:9
Moisture Content	0.0200 %	0.0200 %	Average value: 0.0200 % Grade Count:8
Dew Point	-28.9 °C	-20.0 °F	Average value: -28.9 °C Grade Count:8
Injection Pressure	68.9 - 103 MPa	10000 - 15000 psi	Average value: 86.2 MPa Grade Count:20

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