

Overview of materials for PCT, 40% Glass Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polycyclohexylenedimethylene Terephthalate (PCT) , Polycyclohexylenedimethylene Terephthalate (PCT), 40% Glass Reinforced

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "PCT, 40% Glass Reinforced". Specific grades with glass content between 35% and 44% are included. 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-PCT-40-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.51 - 1.70 g/cc	0.0546 - 0.0614 lb/in ³	Average value: 1.60 g/cc Grade Count:5
Linear Mold Shrinkage	0.00200 - 0.00300 cm/cm	0.00200 - 0.00300 in/in	Average value: 0.00267 cm/cm Grade Count:3
Linear Mold Shrinkage, Transverse	0.00800 - 0.00900 cm/cm	0.00800 - 0.00900 in/in	Average value: 0.00867 cm/cm Grade Count:3

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	73.0 - 130 MPa	10600 - 18900 psi	Average value: 106 MPa Grade Count:4
Elongation at Break	1.30 - 2.30 %	1.30 - 2.30 %	Average value: 1.74 % Grade Count:5
Modulus of Elasticity	6.27 - 13.0 GPa	909 - 1890 ksi	Average value: 9.82 GPa Grade Count:4
Flexural Yield Strength	78.5 - 178 MPa	11400 - 25800 psi	Average value: 139 MPa Grade Count:3
Flexural Modulus	1.29 - 8.00 GPa	186 - 1160 ksi	Average value: 5.61 GPa Grade Count:3
Izod Impact, Notched	1.471 - 1.56906 J/cm @Temperature -30.0 - -30.0 °C	2.756 - 2.93950 ft-lb/in @Temperature -22.0 - -22.0 °F	Average value: 1.52 J/cm Grade Count:1
	1.471 - 1.56906 J/cm @Thickness 3.17 - 6.35 mm	2.756 - 2.93950 ft-lb/in @Thickness 0.125 - 0.250 in	Average value: 1.52 J/cm Grade Count:1
Charpy Impact Unnotched	2.60 - 5.50 J/cm ²	12.4 - 26.2 ft-lb/in ²	Average value: 3.77 J/cm ² Grade Count:3
Charpy Impact, Notched	0.320 - 0.800 J/cm ²	1.52 - 3.81 ft-lb/in ²	Average value: 0.607 J/cm ² Grade Count:3

Thermal Properties	Metric	English	Comments
Melting Point	285 °C	545 °F	Average value: 285 °C Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	240 - 262 °C	464 - 504 °F	Average value: 251 °C Grade Count:3

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 - 150 °C	176 - 302 °F	Average value: 118 °C Grade Count:3
Melt Temperature	285 - 310 °C	545 - 590 °F	Average value: 297 °C Grade Count:3
Drying Temperature	95.0 - 100 °C	203 - 212 °F	Average value: 95.8 °C Grade Count:3

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