

Overview of materials for Polyethylene Terephthalate (PET), 60% Glass Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 60% Glass Reinforced

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polyethylene Terephthalate (PET), 60% Glass Reinforced". Specific grades with glass content between 55% and 64% 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-Polyethylene-Terephthalate-PET-60-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.77 - 1.80 g/cc	0.0639 - 0.0650 lb/in ³	Average value: 1.79 g/cc Grade Count:3
Linear Mold Shrinkage	0.00100 - 0.00200 cm/cm	0.00100 - 0.00200 in/in	Average value: 0.00175 cm/cm Grade Count:3

Mechanical Properties	Metric	English	Comments
Elongation at Break	1.50 - 2.00 %	1.50 - 2.00 %	Average value: 1.67 % Grade Count:3
Flexural Yield Strength	276 - 303 MPa	40000 - 44000 psi	Average value: 290 MPa Grade Count:3
Flexural Modulus	17.2 - 19.3 GPa	2500 - 2800 ksi	Average value: 18.1 GPa Grade Count:3
Izod Impact, Notched	1.01 - 1.12 J/cm	1.90 - 2.10 ft-lb/in	Average value: 1.07 J/cm Grade Count:3

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	229 - 232 °C	444 - 450 °F	Average value: 230 °C Grade Count:3

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