

Overview of materials for Polyethylene Terephthalate (PET), Recycled, Glass/Mineral Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Recycled, Glass/Mineral Reinforced

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polyethylene Terephthalate (PET), Recycled, Glass/Mineral Reinforced". 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-Recycled-GlassMineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.25 - 1.72 g/cc	0.0452 - 0.0621 lb/in ³	Average value: 1.54 g/cc Grade Count:5
Water Absorption	0.0600 - 0.0900 %	0.0600 - 0.0900 %	Average value: 0.0750 % Grade Count:4
Linear Mold Shrinkage	0.00200 - 0.0140 cm/cm	0.00200 - 0.0140 in/in	Average value: 0.00530 cm/cm Grade Count:5

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	65.0 - 140 MPa	9430 - 20300 psi	Average value: 105 MPa Grade Count:5
Elongation at Break	1.40 - 8.00 %	1.40 - 8.00 %	Average value: 3.24 % Grade Count:5
Flexural Yield Strength	100 - 215 MPa	14500 - 31200 psi	Average value: 160 MPa Grade Count:5
Flexural Modulus	3.70 - 15.6 GPa	537 - 2260 ksi	Average value: 9.66 GPa Grade Count:5
Izod Impact, Notched	0.380 - 0.700 J/cm	0.712 - 1.31 ft-lb/in	Average value: 0.565 J/cm Grade Count:4

Thermal Properties	Metric	English	Comments
CTE, linear	30.6 - 37.8 $\mu\text{m}/\text{m}^\circ\text{C}$	17.0 - 21.0 $\mu\text{in}/\text{in}^\circ\text{F}$	Average value: 32.4 $\mu\text{m}/\text{m}^\circ\text{C}$ Grade Count:4
	12.96 - 23.4 $\mu\text{m}/\text{m}^\circ\text{C}$ @Temperature 100 - 100 $^\circ\text{C}$	7.200 - 13.0 $\mu\text{in}/\text{in}^\circ\text{F}$ @Temperature 212 - 212 $^\circ\text{F}$	Average value: 18.2 $\mu\text{m}/\text{m}^\circ\text{C}$ Grade Count:2
CTE, linear, Transverse to Flow	50.0 - 103 $\mu\text{m}/\text{m}^\circ\text{C}$	27.8 - 57.2 $\mu\text{in}/\text{in}^\circ\text{F}$	Average value: 78.8 $\mu\text{m}/\text{m}^\circ\text{C}$ Grade Count:4
	66.6 - 84.6 $\mu\text{m}/\text{m}^\circ\text{C}$	37.0 - 47.0 $\mu\text{in}/\text{in}^\circ\text{F}$	

Thermal Properties	Metric @ Temperature 100 - 100 °C	English @ Temperature 212 - 212 °F	Comments Average value: 75.6 µm/m-°C Grade Count:4
Melting Point	248 - 260 °C	478 - 500 °F	Average value: 252 °C Grade Count:5
Deflection Temperature at 0.46 MPa (66 psi)	223 - 245 °C	433 - 473 °F	Average value: 236 °C Grade Count:4
Deflection Temperature at 1.8 MPa (264 psi)	100 - 228 °C	212 - 442 °F	Average value: 184 °C Grade Count:5
Flammability, UL94	HB	HB	Grade Count:4

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.20 - 3.90	3.20 - 3.90	Average value: 3.65 Grade Count:4
Dielectric Strength	17.0 - 21.0 kV/mm	432 - 533 kV/in	Average value: 18.8 kV/mm Grade Count:4
Dissipation Factor	0.0100 - 0.0200	0.0100 - 0.0200	Average value: 0.0125 Grade Count:4
Arc Resistance	101 - 126 sec	101 - 126 sec	Average value: 120 sec Grade Count:4
Comparative Tracking Index	200 - 250 V	200 - 250 V	Average value: 217 V Grade Count:3

Processing Properties	Metric	English	Comments
Processing Temperature	270 - 280 °C	518 - 536 °F	Average value: 275 °C Grade Count:4

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