

Overview of materials for PVC, 20% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, 20% Glass Fiber Reinforced

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "PVC, 20% Glass Fiber Reinforced". Specific grades with glass content between 15% and 24% 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-PVC-20-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.50 - 1.55 g/cc	0.0542 - 0.0560 lb/in ³	Average value: 1.52 g/cc Grade Count:4
Linear Mold Shrinkage	0.000 - 0.0150 cm/cm	0.000 - 0.0150 in/in	Average value: 0.00533 cm/cm Grade Count:3

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83.0 - 85.0	83.0 - 85.0	Average value: 83.8 Grade Count:4
Modulus of Elasticity	6.55 - 7.03 GPa	950 - 1020 ksi	Average value: 6.76 GPa Grade Count:4
Flexural Yield Strength	96.1 - 138 MPa	13900 - 20000 psi	Average value: 110 MPa Grade Count:4
Flexural Modulus	6.20 - 6.43 GPa	899 - 933 ksi	Average value: 6.26 GPa Grade Count:4
Poissons Ratio	0.410 - 0.420	0.410 - 0.420	Average value: 0.417 Grade Count:3
Shear Modulus	2.31 - 2.43 GPa	335 - 352 ksi	Average value: 2.35 GPa Grade Count:3
Izod Impact, Notched	0.160 - 0.907 J/cm	0.300 - 1.70 ft-lb/in	Average value: 0.527 J/cm Grade Count:4
Izod Impact, Unnotched	3.20 - 5.30 J/cm	5.99 - 9.93 ft-lb/in	Average value: 4.26 J/cm Grade Count:3

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 - 31.0 $\mu\text{m/m-}^{\circ}\text{C}$	15.0 - 17.2 $\mu\text{in/in-}^{\circ}\text{F}$	Average value: 28.5 $\mu\text{m/m-}^{\circ}\text{C}$ Grade Count:4
Deflection Temperature at 1.8 MPa (264 psi)	72.8 - 77.2 $^{\circ}\text{C}$	163 - 171 $^{\circ}\text{F}$	Average value: 75.3 $^{\circ}\text{C}$ Grade Count:4

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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