

Overview of materials for Polybutene

Category : Polymer , Thermoplastic , Polybutene

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Polybutene". 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-Polybutene.php

Physical Properties	Metric	English	Comments
Density	0.895 - 0.915 g/cc	0.0323 - 0.0331 lb/in ³	Average value: 0.904 g/cc Grade Count:8
Viscosity	640000 - 640000 cP @Temperature 117 - 117 °C	640000 - 640000 cP @Temperature 243 - 243 °F	Average value: 640000 cP Grade Count:1
Environmental Stress Crack Resistance	>= 15000 hour @Temperature 50.0 - 50.0 °C	>= 15000 hour @Temperature 122 - 122 °F	Average value: 15000 hour Grade Count:3
Melt Flow	0.400 - 200 g/10 min	0.400 - 200 g/10 min	Average value: 32.4 g/10 min Grade Count:8

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	22.0 - 27.6 MPa	3190 - 4000 psi	Average value: 25.6 MPa Grade Count:8
Tensile Strength, Yield	3.74 - 17.2 MPa	542 - 2490 psi	Average value: 10.6 MPa Grade Count:8
Elongation at Break	300 - 550 %	300 - 550 %	Average value: 357 % Grade Count:7
Modulus of Elasticity	0.0517 - 0.293 GPa	7.50 - 42.5 ksi	Average value: 0.176 GPa Grade Count:8

Thermal Properties	Metric	English	Comments
Melting Point	105 - 126 °C	221 - 259 °F	Average value: 118 °C Grade Count:8
Vicat Softening Point	90.0 - 116 °C	194 - 241 °F	Average value: 104 °C Grade Count:5
Brittleness Temperature	-34.0 - -17.0 °C	-29.2 - 1.40 °F	Average value: -22.7 °C Grade Count:7

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