

Overview of materials for High Density Polyethylene (HDPE), Carbon Black Filled

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Carbon Black Filled

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "High Density Polyethylene (HDPE), Carbon Black Filled". 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-High-Density-Polyethylene-HDPE-Carbon-Black-Filled.php

Physical Properties	Metric	English	Comments
Density	0.940 - 0.956 g/cc	0.0340 - 0.0345 lb/in³	Average value: 0.950 g/cc Grade Count:8
Environmental Stress Crack Resistance	400 - 5000 hour	400 - 5000 hour	Average value: 3170 hour Grade Count:6
Melt Flow	0.265 - 34.0 g/10 min	0.265 - 34.0 g/10 min	Average value: 9.85 g/10 min Grade Count:9

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59.0 - 68.0	59.0 - 68.0	Average value: 64.3 Grade Count:7
Tensile Strength, Ultimate	22.0 - 31.0 MPa	3190 - 4500 psi	Average value: 28.3 MPa Grade Count:6
Tensile Strength, Yield	17.5 - 23.4 MPa	2540 - 3390 psi	Average value: 21.2 MPa Grade Count:7
Elongation at Break	600 - 800 %	600 - 800 %	Average value: 771 % Grade Count:7
Flexural Modulus	0.580 - 0.830 GPa	84.1 - 120 ksi	Average value: 0.760 GPa Grade Count:6
Izod Impact, Notched	3.20 - 7.50 J/cm	5.99 - 14.1 ft-lb/in	Average value: 4.64 J/cm Grade Count:5

Thermal Properties	Metric	English	Comments
Vicat Softening Point	115 - 129 °C	239 - 264 °F	Average value: 124 °C Grade Count:6
Brittleness Temperature	-118 - -70.0 °C	-180 - -94.0 °F	Average value: -86.6 °C Grade Count:7

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China