

## Overview of materials for High Density Polyethylene (HDPE), Copolymer Film Grade

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Copolymer Film Grade

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "High Density Polyethylene (HDPE), Copolymer Film Grade". 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-Copolymer-Film-Grade.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-High-Density-Polyethylene-HDPE-Copolymer-Film-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.942 - 0.949 g/cc	0.0340 - 0.0343 lb/in <sup>3</sup>	Average value: 0.946 g/cc Grade Count:4
Melt Flow	0.250 - 0.400 g/10 min	0.250 - 0.400 g/10 min	Average value: 0.313 g/10 min Grade Count:4

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59.0 - 70.0	59.0 - 70.0	Average value: 63.0 Grade Count:3
Film Tensile Strength at Yield, MD	21.0 - 22.0 MPa	3050 - 3190 psi	Average value: 21.3 MPa Grade Count:3
Film Tensile Strength at Yield, TD	22.0 - 24.0 MPa	3190 - 3480 psi	Average value: 23.0 MPa Grade Count:3
Film Elongation at Break, MD	430 - 600 %	430 - 600 %	Average value: 520 % Grade Count:3
Film Elongation at Break, TD	850 - 900 %	850 - 900 %	Average value: 881 % Grade Count:3
Secant Modulus, MD	0.510 - 0.638 GPa	74.0 - 92.5 ksi	Average value: 0.579 GPa Grade Count:3
Secant Modulus, TD	0.680 - 0.769 GPa	98.6 - 112 ksi	Average value: 0.713 GPa Grade Count:3
Elmendorf Tear Strength, MD	0.500 - 1.00 g/micron	12.7 - 25.4 g/mil	Average value: 0.700 g/micron Grade Count:3
Elmendorf Tear Strength, TD	18.7 - 26.0 g/micron	475 - 660 g/mil	Average value: 22.6 g/micron Grade Count:3
Dart Drop	0.600 - 2.70 g/micron	15.2 - 68.6 g/mil	Average value: 1.54 g/micron Grade Count:3
Film Tensile Strength at Break, MD	35.0 - 54.0 MPa	5080 - 7830 psi	Average value: 43.0 MPa Grade Count:3
Film Tensile Strength at Break, TD	33.0 - 39.0 MPa	4790 - 5660 psi	Average value: 36.7 MPa Grade Count:3

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