

## Overview of materials for Thermoplastic Olefinic Elastomer (TPO), Blow Molding Grade

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO), Blow Molding Grade

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Thermoplastic Olefinic Elastomer (TPO), Blow Molding 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-Thermoplastic-Olefinic-Elastomer-TPO-Blow-Molding-Grade.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Thermoplastic-Olefinic-Elastomer-TPO-Blow-Molding-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.900 - 1.09 g/cc	0.0325 - 0.0394 lb/in <sup>3</sup>	Average value: 0.980 g/cc Grade Count:10
Melt Flow	0.500 - 2.30 g/10 min	0.500 - 2.30 g/10 min	Average value: 0.865 g/10 min Grade Count:10

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40.0 - 65.0	40.0 - 65.0	Average value: 55.4 Grade Count:10
Tensile Strength, Ultimate	17.0 - 32.4 MPa	2470 - 4700 psi	Average value: 25.1 MPa Grade Count:10
Tensile Strength, Yield	11.9 - 20.5 MPa	1730 - 2970 psi	Average value: 18.0 MPa Grade Count:4
Elongation at Break	500 - 700 %	500 - 700 %	Average value: 610 % Grade Count:5
Flexural Modulus	0.138 - 1.77 GPa	20.0 - 257 ksi	Average value: 0.736 GPa Grade Count:10
Izod Impact, Notched	0.320 - 4.38 J/cm	0.599 - 8.21 ft-lb/in	Average value: 1.67 J/cm Grade Count:4
Gardner Impact	34.0 - 36.0 J @Temperature -30.0 - -30.0 °C	25.1 - 26.6 ft-lb @Temperature -22.0 - -22.0 °F	Average value: 36.2 J Grade Count:6
Tear Strength	80.0 - 120 kN/m	456 - 685 pli	Average value: 98.2 kN/m Grade Count:5

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	57.0 - 92.0 °C	135 - 198 °F	Average value: 79.5 °C Grade Count:4
Brittleness Temperature	-45.0 - -40.0 °C	-49.0 - -40.0 °F	Average value: -43.3 °C Grade Count:3

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