

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

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

### Material Notes:

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

Physical Properties	Metric	English	Comments
Density	0.900 - 1.18 g/cc	0.0325 - 0.0426 lb/in <sup>3</sup>	Average value: 0.994 g/cc Grade Count:32
Melt Flow	0.410 - 1.80 g/10 min	0.410 - 1.80 g/10 min	Average value: 0.842 g/10 min Grade Count:16

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40.0 - 90.0	40.0 - 90.0	Average value: 68.4 Grade Count:15
Hardness, Shore D	42.0 - 73.0	42.0 - 73.0	Average value: 59.5 Grade Count:17
Tensile Strength, Ultimate	1.08 - 28.0 MPa	157 - 4060 psi	Average value: 9.90 MPa Grade Count:31
Tensile Strength, Yield	3.88 - 28.1 MPa	563 - 4070 psi	Average value: 9.51 MPa Grade Count:16
Elongation at Break	36.0 - 850 %	36.0 - 850 %	Average value: 528 % Grade Count:32
Flexural Modulus	0.180 - 1.77 GPa	26.1 - 257 ksi	Average value: 0.835 GPa Grade Count:16
Izod Impact, Notched	0.550 - 0.550 J/cm @Temperature -30.0 - - 30.0 °C	1.03 - 1.03 ft-lb/in @Temperature -22.0 - - 22.0 °F	Average value: 0.550 J/cm Grade Count:1
Gardner Impact	13.8 - 36.0 J	10.2 - 26.6 ft-lb	Average value: 28.6 J Grade Count:10
	22.0 - 36.0 J @Temperature -30.0 - - 30.0 °C	16.2 - 26.6 ft-lb @Temperature -22.0 - - 22.0 °F	Average value: 33.7 J Grade Count:15
Tear Strength	87.0 - 140 kN/m	496 - 799 pli	Average value: 109 kN/m Grade Count:12

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric 08 $\mu\text{m}/\text{m}^{\circ}\text{C}$	English 0.0 $\mu\text{in}/\text{in}^{\circ}\text{F}$	Comments Average value: 94.6 $\mu\text{m}/\text{m}^{\circ}\text{C}$ Grade Count: 9
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## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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