

## Overview of materials for PEN-PET

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , PEN-PET

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "PEN-PET". 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-PEN-PET.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-PEN-PET.php)

Physical Properties	Metric	English	Comments
Density	1.33 - 1.45 g/cc	0.0480 - 0.0524 lb/in <sup>3</sup>	Average value: 1.35 g/cc Grade Count:6
Water Absorption	0.0600 - 0.150 %	0.0600 - 0.150 %	Average value: 0.0800 % Grade Count:6
Linear Mold Shrinkage	0.00400 - 0.0150 cm/cm	0.00400 - 0.0150 in/in	Average value: 0.00667 cm/cm Grade Count:6
Melt Flow	12.0 - 25.0 g/10 min	12.0 - 25.0 g/10 min	Average value: 16.4 g/10 min Grade Count:5

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	88.0 - 115	88.0 - 115	Average value: 96.7 Grade Count:6
Tensile Strength, Ultimate	58.8 - 81.4 MPa	8530 - 11800 psi	Average value: 68.7 MPa Grade Count:6
Elongation at Break	40.0 - 460 %	40.0 - 460 %	Average value: 187 % Grade Count:6
Flexural Yield Strength	63.7 - 92.2 MPa	9250 - 13400 psi	Average value: 85.4 MPa Grade Count:6
Flexural Modulus	2.16 - 3.14 GPa	313 - 455 ksi	Average value: 2.63 GPa Grade Count:6
Izod Impact, Notched	0.412 - 0.539 J/cm	0.772 - 1.01 ft-lb/in	Average value: 0.461 J/cm Grade Count:6

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 400 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	33.3 - 222 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Average value: 117 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Grade Count:6
Melting Point	215 - 255 $^\circ\text{C}$	419 - 491 $^\circ\text{F}$	Average value: 240 $^\circ\text{C}$ Grade Count:5
Deflection Temperature at 0.46 MPa (66 psi)	75.0 - 120 $^\circ\text{C}$	167 - 248 $^\circ\text{F}$	Average value: 96.5 $^\circ\text{C}$ Grade Count:6
Glass Transition Temp, Tg	82.0 - 121 $^\circ\text{C}$	180 - 250 $^\circ\text{F}$	Average value: 98.8 $^\circ\text{C}$ Grade Count:5

Thermal Properties	Metric 2	English 2	Comments 1:5
Optical Properties	Metric	English	Comments
Haze	1.00 - 1.60 %	1.00 - 1.60 %	Average value: 1.22 % Grade Count:5

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