

Overview of materials for PVC, Transparent

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Transparent

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "PVC, Transparent". 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-PVC-Transparent.php

Physical Properties	Metric	English	Comments
Density	0.801 - 1.36 g/cc	0.0289 - 0.0491 lb/in ³	Average value: 1.22 g/cc Grade Count:123
Apparent Bulk Density	0.540 - 0.780 g/cc	0.0195 - 0.0282 lb/in ³	Average value: 0.618 g/cc Grade Count:5
Viscosity Test	90.0 - 125 cm ³ /g	90.0 - 125 cm ³ /g	Average value: 101 cm ³ /g Grade Count:5
Linear Mold Shrinkage	0.00200 - 0.0310 cm/cm	0.00200 - 0.0310 in/in	Average value: 0.0134 cm/cm Grade Count:12
Spiral Flow	63.5 - 102 cm	25.0 - 40.2 in	Average value: 78.8 cm Grade Count:5

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100 - 124	100 - 124	Average value: 110 Grade Count:3
Hardness, Shore A	33.0 - 110	33.0 - 110	Average value: 73.7 Grade Count:128
Hardness, Shore D	40.0 - 85.0	40.0 - 85.0	Average value: 72.2 Grade Count:20
Tensile Strength, Ultimate	6.29 - 42.7 MPa	912 - 6200 psi	Average value: 16.7 MPa Grade Count:112
Tensile Strength, Yield	1.79 - 60.1 MPa	260 - 8710 psi	Average value: 18.5 MPa Grade Count:49
Elongation at Break	19.0 - 520 %	19.0 - 520 %	Average value: 336 % Grade Count:118
Modulus of Elasticity	0.00552 - 3.17 GPa	0.801 - 460 ksi	Average value: 2.14 GPa Grade Count:13
Flexural Yield Strength	75.8 - 96.9 MPa	11000 - 14100 psi	Average value: 85.1 MPa Grade Count:12
Flexural Modulus	2.28 - 3.03 GPa	331 - 439 ksi	Average value: 2.81 GPa Grade Count:12
Izod Impact, Notched	0.427 - 10.6 J/cm	0.800 - 19.9 ft-lb/in	Average value: 3.59 J/cm Grade Count:12

Mechanical Properties	Metric 1.07 J/cm	English 00 ft-lb/in	Comments
	@Temperature 0.000 - 0.000 °C	@Temperature 32.0 - 32.0 °F	Average value: 0.668 J/cm Grade Count:4
	0.534 - 1.07 J/cm	1.00 - 2.00 ft-lb/in	Average value: 0.668 J/cm Grade Count:4
	@Thickness 3.18 - 3.18 mm	@Thickness 0.125 - 0.125 in	
Tear Strength	29.8 - 114 kN/m	170 - 650 pli	Average value: 67.6 kN/m Grade Count:16
Compression Set	20.0 - 42.0 %	20.0 - 42.0 %	Average value: 30.4 % Grade Count:7
Clash Berg Modulus	0.00689 - 0.996 GPa	0.999 - 144 ksi	Average value: 0.477 GPa Grade Count:10
	0.310 - 0.310 GPa	45.0 - 45.0 ksi	Average value: 0.310 GPa Grade Count:11
	@Temperature -58.0 - -13.0 °C	@Temperature -72.4 - 8.60 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	65.0 - 72.8 °C	149 - 163 °F	Average value: 68.7 °C Grade Count:5
Deflection Temperature at 1.8 MPa (264 psi)	61.1 - 76.7 °C	142 - 170 °F	Average value: 67.1 °C Grade Count:11
Brittleness Temperature	-57.8 - 8.00 °C	-72.0 - 46.4 °F	Average value: -30.7 °C Grade Count:78
Flammability, UL94	HB - 5VA	HB - 5VA	Grade Count:14

Optical Properties	Metric	English	Comments
Haze	2.50 - 8.00 %	2.50 - 8.00 %	Average value: 4.52 % Grade Count:10
Transmission, Visible	70.0 - 90.0 %	70.0 - 90.0 %	Average value: 88.5 % Grade Count:115

Processing Properties	Metric	English	Comments
Processing Temperature	199 - 213 °C	390 - 415 °F	Average value: 207 °C Grade Count:3
Melt Temperature	160 - 207 °C	320 - 405 °F	Average value: 188 °C Grade Count:25

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