

## Overview of materials for PVC, Sheet Grade

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Sheet Grade

### Material Notes:

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

Physical Properties	Metric	English	Comments
Density	1.15 - 1.65 g/cc	0.0415 - 0.0596 lb/in <sup>3</sup>	Average value: 1.33 g/cc Grade Count:36
ASTM Color	-15.8 - 96.7	-15.8 - 96.7	Average value: 25.5 Grade Count:8

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	76.0 - 112	76.0 - 112	Average value: 98.3 Grade Count:6
Hardness, Shore A	53.0 - 89.0	53.0 - 89.0	Average value: 75.4 Grade Count:15
Hardness, Shore D	68.0 - 83.0	68.0 - 83.0	Average value: 79.0 Grade Count:17
Tensile Strength, Ultimate	9.81 - 52.0 MPa	1420 - 7540 psi	Average value: 24.6 MPa Grade Count:28
Tensile Strength, Yield	37.9 - 50.4 MPa	5500 - 7310 psi	Average value: 42.9 MPa Grade Count:8
Elongation at Break	15.0 - 350 %	15.0 - 350 %	Average value: 202 % Grade Count:19
Modulus of Elasticity	2.55 - 2.82 GPa	370 - 409 ksi	Average value: 2.70 GPa Grade Count:8
Flexural Yield Strength	62.1 - 86.0 MPa	9000 - 12500 psi	Average value: 74.3 MPa Grade Count:10
Flexural Modulus	2.23 - 3.31 GPa	323 - 480 ksi	Average value: 2.68 GPa Grade Count:11
Izod Impact, Notched	0.907 - 8.01 J/cm	1.70 - 15.0 ft-lb/in	Average value: 2.90 J/cm Grade Count:10
Izod Impact, Unnotched	0.26695 - 0.26695 J/cm @Temperature -40.0 - -40.0 °C	0.50011 - 0.50011 ft-lb/in @Temperature -40.0 - -40.0 °F	Average value: 0.267 J/cm Grade Count:1
Falling Dart Impact	10.8466 - 10.8466 J @Temperature -40.0 - -	8.00001 - 8.00001 ft-lb @Temperature -40.0 - -	Average value: 10.8 J Grade Count:1

Mechanical Properties	40.0 °C Metric	40.0 °F English	Comments
Dart Drop Total Energy	46.7 - 161 J/cm	0.0875 - 0.302 ft-lb/mil	Average value: 85.5 J/cm Grade Count:4

Thermal Properties	Metric	English	Comments
CTE, linear	63.1 - 99.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	35.1 - 55.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Average value: 74.4 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ Grade Count:9
Deflection Temperature at 1.8 MPa (264 psi)	54.0 - 75.6 $^{\circ}\text{C}$	129 - 168 $^{\circ}\text{F}$	Average value: 67.1 $^{\circ}\text{C}$ Grade Count:12
Flammability, UL94	HB - 5VA	HB - 5VA	Grade Count:7

Optical Properties	Metric	English	Comments
Haze	2.50 - 15.0 %	2.50 - 15.0 %	Average value: 7.83 % Grade Count:3
Transmission, Visible	78.0 - 90.0 %	78.0 - 90.0 %	Average value: 84.3 % Grade Count:3

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 210 $^{\circ}\text{C}$	360 - 410 $^{\circ}\text{F}$	Average value: 196 $^{\circ}\text{C}$ Grade Count:6

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