

Overview of materials for ABS/PVC Alloy

Category : Polymer , Thermoplastic , ABS Polymer , ABS/PVC Alloy , Vinyl (PVC)

Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "ABS/PVC Alloy". 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-ABSPVC-Alloy.php

Physical Properties	Metric	English	Comments
Density	0.600 - 1.36 g/cc	0.0217 - 0.0491 lb/in ³	Average value: 1.19 g/cc Grade Count:11
Water Absorption	0.0200 - 0.0300 %	0.0200 - 0.0300 %	Average value: 0.0233 % Grade Count:3
Viscosity	190400 - 212400 cP	190400 - 212400 cP	Average value: 201000 cP Grade Count:2
	@Temperature 191 - 191 °C	@Temperature 375 - 375 °F	
Viscosity	190400 - 212400 cP	190400 - 212400 cP	Average value: 201000 cP Grade Count:2
	@Shear Rate 3000 - 3000 1/s	@Shear Rate 3000 - 3000 1/s	
Linear Mold Shrinkage	0.00400 - 0.00700 cm/cm	0.00400 - 0.00700 in/in	Average value: 0.00450 cm/cm Grade Count:4
Melt Flow	0.210 - 3.90 g/10 min	0.210 - 3.90 g/10 min	Average value: 1.97 g/10 min Grade Count:3

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	64.0 - 100	64.0 - 100	Average value: 85.7 Grade Count:9
Tensile Strength, Ultimate	9.00 - 50.9 MPa	1310 - 7380 psi	Average value: 34.0 MPa Grade Count:3
Tensile Strength, Yield	31.0 - 40.8 MPa	4500 - 5920 psi	Average value: 34.7 MPa Grade Count:8
Modulus of Elasticity	1.80 - 2.41 GPa	261 - 350 ksi	Average value: 2.09 GPa Grade Count:5
Flexural Yield Strength	17.2 - 75.2 MPa	2490 - 10900 psi	Average value: 54.9 MPa Grade Count:11
Flexural Modulus	1.52 - 2.41 GPa	220 - 350 ksi	Average value: 2.10 GPa Grade Count:10
Izod Impact, Notched	0.900 - 12.5 J/cm	1.69 - 23.4 ft-lb/in	Average value: 5.10 J/cm Grade Count:7

Mechanical Properties	Metric	English	Comments
	1.30 J/cm	2.44 ft-lb/in	Average value: 0.834 J/cm Grade Count:5
	@Temperature -28.9 - - 20.0 °C	@Temperature -20.0 - - 4.00 °F	
Izod Impact, Unnotched	0.5339 - 0.5339 J/cm	1.000 - 1.000 ft-lb/in	Average value: 0.534 J/cm Grade Count:1
	@Temperature -40.0 - - 40.0 °C	@Temperature -40.0 - - 40.0 °F	
Falling Dart Impact	27.1164 - 216.931 J	20.0000 - 160.000 ft-lb	Average value: 147 J Grade Count:3
	@Temperature -40.0 - - 40.0 °C	@Temperature -40.0 - - 40.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	75.6 - 166 µm/m-°C	42.0 - 92.2 µin/in-°F	Average value: 117 µm/m-°C Grade Count:6
Deflection Temperature at 0.46 MPa (66 psi)	72.0 - 97.0 °C	162 - 207 °F	Average value: 87.2 °C Grade Count:4
Deflection Temperature at 1.8 MPa (264 psi)	66.0 - 82.7 °C	151 - 181 °F	Average value: 74.4 °C Grade Count:11
Vicat Softening Point	70.0 - 80.0 °C	158 - 176 °F	Average value: 76.7 °C Grade Count:3
Flammability, UL94	V-1 - 5VA	V-1 - 5VA	Grade Count:9
Oxygen Index	29.9 - 36.8 %	29.9 - 36.8 %	Average value: 32.0 % Grade Count:4

Electrical Properties	Metric	English	Comments
Surface Resistance	1e+05	1e+05	Grade Count:3

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