

Overview of materials for ABS/Polyester Alloy

Category : Polymer , Thermoplastic , ABS Polymer , ABS/Polyester Alloy , Polyester, TP

Material Notes:

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

Physical Properties	Metric	English	Comments
Density	1.07 - 1.58 g/cc	0.0387 - 0.0571 lb/in ³	Average value: 1.22 g/cc Grade Count:22
Water Absorption	0.0140 - 0.150 %	0.0140 - 0.150 %	Average value: 0.0877 % Grade Count:7
Linear Mold Shrinkage	0.00100 - 0.0140 cm/cm	0.00100 - 0.0140 in/in	Average value: 0.00636 cm/cm Grade Count:17
Melt Flow	11.0 - 35.0 g/10 min	11.0 - 35.0 g/10 min	Average value: 20.1 g/10 min Grade Count:7

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	85.0 - 117	85.0 - 117	Average value: 102 Grade Count:12
Tensile Strength, Ultimate	26.5 - 41.4 MPa	3840 - 6000 psi	Average value: 35.1 MPa Grade Count:4
Tensile Strength, Yield	21.4 - 117 MPa	3100 - 17000 psi	Average value: 51.5 MPa Grade Count:20
Elongation at Break	3.30 - 100 %	3.30 - 100 %	Average value: 42.2 % Grade Count:19
Flexural Yield Strength	49.0 - 151 MPa	7110 - 21900 psi	Average value: 74.3 MPa Grade Count:21
Flexural Modulus	0.238 - 10.4 GPa	34.5 - 1510 ksi	Average value: 2.79 GPa Grade Count:22
Izod Impact, Notched	0.374 - 7.47 J/cm	0.700 - 14.0 ft-lb/in	Average value: 1.94 J/cm Grade Count:22

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 - 103 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	16.7 - 57.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Average value: 68.7 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Grade Count:7
Deflection Temperature at 0.46 MPa (66 psi)	86.0 - 202 $^\circ\text{C}$	187 - 396 $^\circ\text{F}$	Average value: 122 $^\circ\text{C}$ Grade Count:14
Deflection Temperature at 1.8 MPa	78.0 - 214 $^\circ\text{C}$	172 - 417 $^\circ\text{F}$	Average value: 97.0 $^\circ\text{C}$ Grade

<small>(264 psi)</small> Thermal Properties	Metric	English	Count:18 Comments
Vicat Softening Point	88.0 - 104 °C	190 - 219 °F	Average value: 93.5 °C Grade Count:5
Flammability, UL94	HB - 5VA	HB - 5VA	Grade Count:18

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 - 1.00e+16 ohm-cm	1.00e+15 - 1.00e+16 ohm-cm	Average value: 7.75e+15 ohm-cm Grade Count:4
Surface Resistance	1.00e+14 - 1.00e+16 ohm	1.00e+14 - 1.00e+16 ohm	Average value: 6.70e+15 ohm Grade Count:3
Dielectric Strength	17.7 - 29.5 kV/mm	450 - 750 kV/in	Average value: 26.1 kV/mm Grade Count:4

Processing Properties	Metric	English	Comments
Mold Temperature	10.0 - 80.0 °C	50.0 - 176 °F	Average value: 58.2 °C Grade Count:5

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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