

Overview of materials for ABS/Polyurethane Alloy

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

Material Notes:

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

Physical Properties	Metric	English	Comments
Density	0.970 - 1.20 g/cc	0.0350 - 0.0434 lb/in ³	Average value: 1.12 g/cc Grade Count:8
Linear Mold Shrinkage	0.00600 cm/cm	0.00600 in/in	Average value: 0.00600 cm/cm Grade Count:3
Melt Flow	11.0 - 26.0 g/10 min	11.0 - 26.0 g/10 min	Average value: 17.7 g/10 min Grade Count:3

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92.0 - 98.0	92.0 - 98.0	Average value: 96.0 Grade Count:5
Hardness, Shore D	58.0 - 68.0	58.0 - 68.0	Average value: 62.3 Grade Count:4
Tensile Strength, Ultimate	16.0 - 67.0 MPa	2320 - 9720 psi	Average value: 42.9 MPa Grade Count:7
Tensile Strength, Yield	12.0 - 67.0 MPa	1740 - 9720 psi	Average value: 37.9 MPa Grade Count:7
Elongation at Break	180 - 320 %	180 - 320 %	Average value: 271 % Grade Count:7
Elongation at Yield	16.0 - 50.0 %	16.0 - 50.0 %	Average value: 31.3 % Grade Count:3
Modulus of Elasticity	0.0827 - 0.745 GPa	12.0 - 108 ksi	Average value: 0.441 GPa Grade Count:3
Izod Impact, Notched	NB	NB	Grade Count:3
	3.74 - 13.9 J/cm @Temperature -50.0 - - 50.0 °C	7.01 - 26.0 ft-lb/in @Temperature -58.0 - - 58.0 °F	Average value: 8.37 J/cm Grade Count:3
Charpy Impact Unnotched	NB	NB	Grade Count:3
Charpy Impact, Notched	4.15 J/cm ² - NB	19.8 ft-lb/in ² - NB	Average value: 8.83 J/cm ² Grade Count:3
	60.0 - 60.0 %	60.0 - 60.0 %	

Compression Set Mechanical Properties	Metric @ Temperature 70.0 - 70.0 °C	English @ Temperature 158 - 158 °F	Average value: 60.0 % Grade Count:1 Comments

Thermal Properties	Metric	English	Comments
CTE, linear	88.0 - 104 µm/m-°C	48.9 - 57.8 µin/in-°F	Average value: 94.0 µm/m-°C Grade Count:3
Deflection Temperature at 0.46 MPa (66 psi)	57.0 - 93.0 °C	135 - 199 °F	Average value: 78.3 °C Grade Count:3
Deflection Temperature at 1.8 MPa (264 psi)	44.0 - 84.0 °C	111 - 183 °F	Average value: 64.6 °C Grade Count:3
Vicat Softening Point	101 - 102 °C	214 - 216 °F	Average value: 101 °C Grade Count:3

Optical Properties	Metric	English	Comments
Gloss	72.0 - 87.0 %	72.0 - 87.0 %	Average value: 78.3 % Grade Count:3

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