

Dow Prevail® 3150 ABS + Polyurethane

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

Material Notes:

PREVAIL® 3150 thermoplastic resin offers designers and manufacturers a combination of flexibility and low temperature toughness not previously available in an engineering thermoplastic and is used for applications ranging from flexible bumper fascias to sports equipment components. It is easy to process and is paintable without the need for a primer. Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Prevail-3150-ABS-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ASTM Data
Melt Density	0.970 g/cc	0.0350 lb/in ³	Melt density
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 230 °C	11 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	27.6 MPa	4000 psi	ASTM Data
Tensile Strength, Yield	24.1 MPa	3500 psi	ASTM Data
Elongation at Break	180 %	180 %	ASTM Data
Elongation at Yield	16 %	16 %	ISO Data
Tensile Modulus	0.745 GPa	108 ksi	ASTM Data
Izod Impact, Notched	NB	NB	ASTM Data
	3.74 J/cm @Temperature -50.0 °C	7.01 ft-lb/in @Temperature -58.0 °F	ASTM Data
Charpy Impact Unnotched	NB	NB	ISO Data
	NB	NB	ISO Data, Low Temp
Charpy Impact, Notched	4.15 J/cm ²	19.8 ft-lb/in ²	ISO Data, Low Temp
	11.0 J/cm ²	52.4 ft-lb/in ²	ISO Data
Impact Test	52.0 J @Temperature 23.0 °C	38.4 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	Instrumented Dart Total Energy

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	88.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 °C	48.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 °F	ASTM data
Specific Heat Capacity	1.54 J/g-°C	0.368 BTU/lb-°F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	
Deflection Temperature at 0.46 MPa (66 psi)	78.0 °C	172 °F	Unannealed; ASTM Data
	93.0 °C	199 °F	Annealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	Unannealed; ASTM Data
	84.0 °C	183 °F	Annealed; ASTM Data
Vicat Softening Point	102 °C	216 °F	

Optical Properties	Metric	English	Comments
Gloss	72 %	72 %	Gardner Gloss, 60°

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