

Dow Prevail® 3050 ABS + Polyurethane

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

Material Notes:

PREVAIL® 3050 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-3050-ABS-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM Data
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	
Melt Flow	26 g/10 min @Load 2.16 kg, Temperature 230 °C	26 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM Data

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.2 MPa	5110 psi	ASTM Data
Tensile Strength, Yield	35.2 MPa	5110 psi	ASTM Data
Elongation at Break	300 %	300 %	ASTM Data
Elongation at Yield	>= 50 %	>= 50 %	ISO Data
Tensile Modulus	0.0827 GPa	12.0 ksi	ASTM Data
Izod Impact, Notched	NB	NB	ASTM Data
	13.9 J/cm @Temperature -50.0 °C	26.0 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	12.0 J/cm ²	57.1 ft-lb/in ²	ISO Data, Low Temp
	NB	NB	ISO Data
Impact Test	56.5 J @Temperature 23.0 °C	41.7 ft-lb @Temperature 73.4 °F	Instrumented Dart Total Energy
	67.8 J	50.0 ft-lb	Instrumented Dart Total Energy

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	104 µm/m-°C @Temperature 20.0 °C	57.8 µin/in-°F @Temperature 68.0 °F	ASTM data
Deflection Temperature at 0.46 MPa (66 psi)	57.0 °C	135 °F	Unannealed; ASTM Data
	79.0 °C	174 °F	Annealed; ASTM Data
Deflection Temperature at 1.8 MPa (264 psi)	44.0 °C	111 °F	Unannealed; 54°C (129°F) annealed; ASTM Data
Vicat Softening Point	101 °C	214 °F	
Optical Properties	Metric	English	Comments
Gloss	87 %	87 %	Gardner Gloss, 60°

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