

BASF Ultramid® BU50I PA6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Unreinforced

Material Notes:

Description: Ultramid Ultratough Nylon BU50I is an unreinforced PA6, impact modified injection molding product that maintains its impact strength and ductility to -40 deg F (-40 deg C). The extreme low temperature tolerance of Ultratough Nylon BU50I makes it ideal for applications in which the weld line impact strength at low temperatures is critical. Applications: Automotive components, small engines, power tool parts and casings, cold weather and high impact supports gear, such as snowboards, ski components, helmets and hockey masks. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-BU50I-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	2.1 %	2.1 %	50% RH; ASTM D570
	7.3 %	7.3 %	Saturation; ASTM D570
Linear Mold Shrinkage	0.04572 cm/cm	0.04572 in/in	1/8" bar

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	ASTM D638
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	>= 100 %	>= 100 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	65.0 MPa	9430 psi	ASTM D790
Flexural Modulus	1.69 GPa	245 ksi	ASTM D790
Izod Impact, Notched (ISO)	NB @Temperature -40.0 °C	NB @Temperature -40.0 °F	ASTM D256
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ASTM D256
Dart Drop, Total Energy	264 J	195 ft-lb	BASF

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D3418

Thermal Properties Deflection Temperature at 1.8 MPa (150 psi)	50.0 °C Metric	122 °F English	ASTM D648 Comments
UL RTI, Electrical	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	746B
UL RTI, Mechanical with Impact	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	746B
UL RTI, Mechanical without Impact	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	746B
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 300 °C	518 - 572 °F	
Mold Temperature	60.0 - 85.0 °C	140 - 185 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Commercial Status	North America	

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