

## BASF Ultramid® BG50XF1 PA6 (Dry)

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

### Material Notes:

Description: Ultramid BG50XF1 is an impact modified, injection molding type 6 nylon graft copolymer with superior impact resistance and flow especially for thinner walled parts and long flow lengths. It is also available in natural and pigmented versions. Copolymerization results in varying levels of toughness and flexibility combined with excellent thermal and chemical properties. Exhibits higher impact performance than that of conventional nylon homopolymers while maintaining good strength, chemical resistance and stiffness. Applications: Cellular phone housings, handheld device, caps, furniture rails, covers, mower decks and tool. Information provided by BASF

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-BG50XF1-PA6-Dry.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-BG50XF1-PA6-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption at Equilibrium	2.4 %	2.4 %	50% RH; ASTM D570
	8.6 %	8.6 %	Saturation; ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 psi	ASTM D638
Elongation at Break	70 %	70 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	2.39 GPa	347 ksi	ASTM D790
Izod Impact, Notched (ISO)	180 kJ/m <sup>2</sup>	85.7 ft-lb/in <sup>2</sup>	ISO 179
Dart Drop, Total Energy	201 J	148 ft-lb	BASF

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ASTM D648
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	149 °F	746B

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
UL RTI, Mechanical without Impact	65.0 °C	149 °F	746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 285 °C	464 - 545 °F	
Mold Temperature	65.0 - 80.0 °C	149 - 176 °F	
Dry Time	2 - 4 hour	2 - 4 hour	
Moisture Content	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Commercial Status	North America	

## Contact Songhan Plastic Technology Co.,Ltd.

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