Ultramid® B G50XFI (Cond)

Polyamide 6

BASF Corporation

Product Description
Ultramid BG50XFI 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 hemical properties. Exhibits higher impact performance than that of conventional nylon homopolymers while maintaining good strength, chemical resistance and stiffness. Ultramid BG50XFI is generally recommended for applications such as cellular phone housings, handheld device, caps, furniture rails, covers, mower decks and tool.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Impact Modifier		
Features	• Copolymer • Good Chemical Resistance • Good Flexibility	• Good Flow • Good Stiffness • Good Strength	• Good Toughness • High Impact Resistance • Impact Modified
Uses	• Caps • Cell Phones • Furniture	• Housings • Power/Other Tools • Protective Coverings	• Thin-walled Parts
Appearance	• Colors Available	• Natural Color	
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	8.6	%	
Equilibrium, 23°C, 50% RH	2.4	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	755	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	36.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	28	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	> 50	%	ISO 527-2
Flexural Modulus (23°C)	670	MPa	ISO 178
Flexural Strength (23°C)	20.0	MPa	ISO 178

Notes

[1] Typical properties: these are not to be construed as specifications.