Ultramid® SEG8 GY7716B

Polyamide 6

BASF Corporation

Message:

Ultramid SEG8 GY7716B is a 40% glass reinforced, impact modified, injection molding type 6 nylon requiring high strength, surface aesthetics, improved UV resistance, and good processability. This product has excellent surface appearance while maintaining a good balance of physical properties, such as high strength, improved toughness and chemical resistance. It features superior flow properties and is suited for gas assist parts and those requiring long lengths. It shows lower pressure, temperature and cycle time requirements than conventional grades.
Applications
Applications may include furniture, lawn and garden, and universal, but can be used wherever strength and appearance are critical requirements. Additionally, with improved UV performance, the use of this material in exterior applications may be applicable.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Impact Modifier		
Features	Good Chemical Resistance Good Processability Good Toughness High Flow High Strength Impact Modified Pleasing Surface Appearance		
Uses	Furniture General Purpose Lawn and Garden Equipment		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.43	g/cm^3	ISO 1183
Melt Volume-Flow Rate (MVR) (235°C/5.0 kg)	6.00	$cm^3/10min$	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break, 23°C)	130	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	10500	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	11	kJ/m^2	ISO 179
Notched Izod Impact Strength (23°C)	13	kJ/m^2	ISO 180

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.080	%
Rear Temperature	245 to 275	°C
Middle Temperature	260 to 285	°C
Front Temperature	270 to 295	°C
Nozzle Temperature	270 to 295	°C
Processing (Melt) Temp	270 to 295	°C
Mold Temperature	80.0 to 95.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

Recommended distributors for this material

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