

Ultramid® SEG8 BK-126

Polyamide 6

BASF Corporation

Message:

Ultramid SEG8 BK-126 is a 40% glass reinforced, pigmented black, injection molding type 6 nylon requiring high strength, surface aesthetics, 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 parts having thinner walls and those requiring long lengths. It shows lower pressure, temperature, and cycle time requirements than conventional grades.

Applications

Applications include furniture, but can be used wherever strength and appearance are critical requirements, for example, automotive applications (door handles and mirrors).

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Good Chemical Resistance		
	Good Processability		
	Good Toughness		
	High Flow		
	High Strength		
Uses	Pleasing Surface Appearance		
	Automotive Applications		
	Furniture		
	Thin-walled Parts		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	160	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.1	%	ISO 527-2
Flexural Modulus (23°C)	10700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	12	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	197	°C	ISO 75-2/A
Melting Temperature (DSC)	220	°C	ISO 3146

Injection	Nominal Value	Unit
Drying Temperature	83.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
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	

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