

Ultramid® B3EG4

Polyamide 6

BASF Corporation

Message:

Ultramid B3EG4 uncolored is a 20% glass fiber reinforced, injection molding PA6 grade.

Applications

Typical applications include automotive interior and general industrial applications.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Oil Resistant		
Uses	Automotive Interior Parts		
	Industrial Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6700	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	135	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.9	%	ISO 527-2
Flexural Modulus (23°C)	6200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.5	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (-30°C)	6.8	kJ/m²	ISO 179
Notched Izod Impact Strength			ISO 180
-40°C	6.4	kJ/m²	
23°C	7.5	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	198	°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	3.45 to 10.3	MPa
Injection Rate	Fast	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

