

Ultramid® B3EG7

Polyamide 6

BASF Corporation

Message:

Ultramid B3EG7 is a 35% glass fiber reinforced injection molding PA6 grade.

Applications

Typical applications include industrial articles and electrical insulating parts.

General Information				
UL YellowCard		E36632-531649	E41871-233688	
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Features		Oil Resistant		
Uses		Electronic Insulation		
		Industrial Applications		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	45.0	--	cm³/10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	6.2	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11000	7200	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	200	130	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.5	7.0	%	ISO 527-2
Flexural Modulus (23°C)	10000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	13	--	kJ/m²	
23°C	17	33	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	90	--	kJ/m²	
23°C	110	110	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
CLTE				
Flow	1.7E-5	--	cm/cm/°C	
Transverse	6.5E-5	--	cm/cm/°C	
RTI Elec				UL 746
0.750 mm	120	--	°C	
1.50 mm	120	--	°C	
3.00 mm	120	--	°C	
RTI Imp				UL 746
1.50 mm	95.0	--	°C	
3.00 mm	95.0	--	°C	
RTI Str				UL 746
1.50 mm	130	--	°C	
3.00 mm	130	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+10	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.90	6.20		IEC 60250
Dissipation Factor				IEC 60250
100 Hz	0.021	0.19		
1 MHz	0.021	0.19		
Comparative Tracking Index	575	575	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.50 mm	HB	--		
3.00 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	83.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.050 to 0.12		%	
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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