

Ultramid® B35G3 BK00564

Polyamide 6

BASF Corporation

Message:

Ultramid B35G3 BK00564 is a 15% glass reinforced, injection molding PA6 grade.

Applications

Typical applications include internal gas pressure applications such as flashing direction switch gears, automobile mirror housings and wheels of mountain bikes.

General Information				
UL YellowCard		E36632-531641	E41871-233680	
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Features		Oil Resistant		
Uses		Automotive Applications		
		Gears		
		Housings		
		Wheels		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.24	--	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	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.6	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	181	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	6100	3200	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Break, -40°C	156	--	MPa	
Break, 23°C	126	67.0	MPa	
Tensile Strain (Break, 23°C)	2.9	13	%	ISO 527-2
Flexural Stress (23°C)	189	90.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.9	15	kJ/m²	ISO 179

Charpy Unnotched Impact Strength (23°C)	47	110	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	214	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	187	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	500	--	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	250 to 290		°C	
Mold Temperature	80.0 to 95.0		°C	
Injection Pressure	3.50 to 12.5		MPa	
Injection Rate	Fast			

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