Ultramid® B3ZG7 OSI BK23273

Polyamide 6

BASF Corporation

Message:

Ultramid B3ZG7 OSI BK23273 is a 35% glass reinforced, pigmented black, heat stabilized, impact modified PA6 injection molding grade. It was developed to meet demanding mechanical and chemical requirements for the automotive oil pan application.
Applications
Typical application is automotive oil pan.

General Information	
Filler / Reinforcement	Glass Fiber,35% Filler by Weight
Additive	Heat Stabilizer Impact Modifier
Features	Good Chemical Resistance Heat Stabilized Impact Modified Oil Resistant
Uses	Automotive Under the Hood
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Pellets
Processing Method	Injection Molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10000	6170	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	170	112	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.5	11	%	ISO 527-2
Flexural Modulus (23°C)	8920	5650	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	18	--	kJ/m²	
23°C	26	34	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179

-30°C	110	--	kJ/m²	
23°C	100	110	kJ/m²	
Notched Izod Impact Strength				ISO 180
-40°C	17	--	kJ/m²	
23°C	25	34	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	206	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°C	ISO 3146

Injection	Dry	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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