Ultramid® B3ZG7 OSI BK23273

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

Product Description

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			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• North America	
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight		
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• Heat Stabilized	• Impact Modified	• Oil Resistant
Uses	• Automotive Applications	• Automotive Under the Hood	
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• CHRYSLER MS-DB-41 CPN4852 Color: Black	• FORD WSS-M4D578-A2	• FORD WSS-M4D578-B1
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

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 (73°F)	1.45E+6	895000	psi	ISO 527-2
Tensile Stress (Break, 73°F)	23600	16200	psi	ISO 527-2
Tensile Strain (Break, 73°F)	4.1	11	%	ISO 527-2
Flexural Modulus (73°F)	1.29E+6	819000	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179
-22°F	8.6	--	ft·lb/in²	
73°F	11	16	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179
-22°F	54	--	ft·lb/in²	
73°F	48	50	ft·lb/in²	
Notched Izod Impact Strength				ISO 180
-40°F	8.1	--	ft·lb/in²	
73°F	11	16	ft·lb/in²	

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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	428	--	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	397	--	°F	
Melting Temperature (DSC)	428	--	°F	ISO 3146

Processing Information

Injection	Dry	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.080	%
Rear Temperature	473 to 527	°F
Middle Temperature	500 to 545	°F
Front Temperature	518 to 563	°F
Nozzle Temperature	518 to 563	°F
Processing (Melt) Temp	518 to 563	°F
Mold Temperature	176 to 203	°F
Injection Pressure	508 to 1810	psi
Injection Rate	Fast	

Notes

[1] Typical properties: these are not to be construed as specifications.

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