Ultramid® B3S BK00464

BASF Corporation - Polyamide 6

Monday, November 4, 2019

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Features	• Oil Resistant
Agency Ratings	• EC 1907/2006 (REACH)
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• FORD WSK-M4D672-A
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR)				ISO 1133
275°C/5.0 kg	180	--	cm³/10min	
Water Absorption				ISO 62
Saturation, 73°F	9.5	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 50% RH	3.0	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (73°F)	493000	174000	psi	ISO 527-2
Tensile Stress (Yield, 73°F)	12800	6530	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.8	20	%	ISO 527-2
Nominal Tensile Strain at Break				ISO 527-2
73°F	10	> 50	%	
Flexural Modulus (73°F)	421000	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179
-22°F	1.4	--	ft·lb/in²	
73°F	1.9	24	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179
-22°F	95	--	ft·lb/in²	
73°F	120 ft·lb/in²	No Break		
Notched Izod Impact Strength				ISO 180
73°F	1.4	--	ft·lb/in²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	356	--	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	149	--	°F	
Melting Temperature (DSC)	428	--	°F	ISO 3146

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Thermal	Dry	Conditioned	Unit	Test Method
RTI Elec				UL 746
0.06 in	266	--	°F	
0.12 in	266	--	°F	
0.24 in	266	--	°F	
RTI Imp				UL 746
0.06 in	167	--	°F	
0.12 in	167	--	°F	
0.24 in	167	--	°F	
RTI Str				UL 746
0.06 in	230	--	°F	
0.12 in	239	--	°F	
0.24 in	239	--	°F	

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.06 in	V-2	--		
0.12 in	V-2	--		
0.24 in	V-2	--		

Processing Information

Injection	Dry	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	464 to 545	°F
Mold Temperature	149 to 176	°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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