

Ultramid® B3WG3

BASE Corporation - Polyamide 6

Monday November 4 2010

BASE Corporation - Polyamide 6			Monday, November 4, 2019
	General	Information	
Product Description			
Ultramid B3WG3 is a 15% glass	fiber reinforced, heat stabilized injection	on molding PA6 grade.	
General			
Material Status	Commercial: Active		
Availability	Asia Pacific	• Europe	North America
Filler / Reinforcement	Glass Fiber, 15% Filler b	y Weight	
Additive	Heat Stabilizer		
Features	Heat Stabilized	Oil Resistant	
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	• Pellets		
Processing Method	Injection Molding		
	ASTM & IS	SO Properties ¹	
Physical		Nominal Value Unit	Test Method

ASTM & ISO Properties 1				
Physical	Nominal Value		Test Method	
Density		g/cm³	ISO 1183	
Mechanical	Nominal Value		Test Method	
Tensile Modulus (73°F)	841000	psi	ISO 527-2	
Tensile Stress (Break, 73°F)	18900	psi	ISO 527-2	
Tensile Strain (Break, 73°F)	3.5	%	ISO 527-2	
Flexural Modulus (73°F)	783000	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179	
-22°F	2.9	ft·lb/in²		
73°F	3.3	ft·lb/in²		
Charpy Unnotched Impact Strength (73°F)	19	ft·lb/in²	ISO 179	
Notched Izod Impact Strength (73°F)	2.7	ft·lb/in²	ISO 180	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Unannealed)	374	°F	ISO 75-2/A	
Melting Temperature (DSC)	428	°F	ISO 3146	
RTI Elec			UL 746	
0.031 in	266	°F		
0.06 in	266	°F		
0.12 in	266	°F		
RTI Imp			UL 746	
0.06 in	185	°F		
0.12 in	185	°F		
RTI Str			UL 746	
0.06 in	266	°F		
0.12 in	266			



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Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.031 in	НВ	
0.06 in	НВ	
0.12 in	НВ	

Processing Information			
Injection	Nominal Value Unit		
Drying Temperature	176 °F		
Drying Time	2.0 to 4.0 hr		
Suggested Max Moisture	0.15 %		
Processing (Melt) Temp	482 to 554 °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.