

Processing Method

Ultramid® Structure A3WG8 LFX BK23215

· Injection Molding

BASF Corporation - Polyamide 66

Monday, November 4, 2019

General Information Product Description				
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Material Status	Commercial: Active			
Availability	North America			
Filler / Reinforcement	Long Glass Fiber, 40% Filler by Weight			
Features	 Heat Aging Resistant High Strength Oil Resistant			
Agency Ratings	• EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Appearance	• Black			
Forms	• Pellets			

ASTM & ISO Properties 1					
Physical	Dry	Conditioned	Unit	Test Method	
Density	1.47		g/cm³	ISO 1183	
Molding Shrinkage				ISO 294-4	
Across Flow	0.66		%		
Flow	0.45		%		
Mechanical	Dry	Conditioned	Unit	Test Method	
Tensile Modulus (73°F)	1.96E+6	1.48E+6	psi	ISO 527-2	
Tensile Stress (Break, 73°F)	34800	24500	psi	ISO 527-2	
Tensile Strain (Break, 73°F)	2.4	2.4	%	ISO 527-2	
Flexural Modulus (73°F)	1.80E+6	1.35E+6	psi	ISO 178	
Flexural Stress (73°F)	52200	38900	psi	ISO 178	
Impact	Dry	Conditioned	Unit	Test Method	
Charpy Notched Impact Strength				ISO 179	
-22°F	10	9.5	ft·lb/in²		
73°F	10	10	ft·lb/in²		
Charpy Unnotched Impact Strength				ISO 179	
-22°F	32	30	ft·lb/in²		
73°F	39	39	ft·lb/in²		
Thermal	Dry	Conditioned	Unit	Test Method	
Heat Deflection Temperature				ISO 75-2/A	
264 psi, Unannealed	500		°F		
Melting Temperature (DSC)	500		°F	ISO 3146	



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Injection	Dry Unit			
Drying Temperature	181 °F			
Drying Time	2.0 to 4.0 hr			
Suggested Max Moisture	0.15 %			
Processing (Melt) Temp	554 to 590 °F			
Mold Temperature	176 to 212 °F			
Injection Pressure	508 to 1810 psi			
Injection Rate	Fast			

Notes

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