Ultramid® A3XG3 BK20562

Polyamide 66

BASF Corporation

Message:

Ultramid A3XG3 BK20562 is a 15% glass fiber reinforced injection molding PA66 grade with improved flame retardance and enhanced long-term heat stability. The grade is based on red phosphorous and exhibits exceptional mechanical properties and outstanding surface finish. Flame performance has been determined to be V0 at 0.8mm per the UL94 method.

General Information				
Filler / Reinforcement	Glass Fiber,15% Filler by Weight			
Features	Flame Retardant Oil Resistant Outstanding Surface Finish			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS Compliant			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.34	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.50	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	6740	4450	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	120	72.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.8	5.6	%	ISO 527-2
Flexural Modulus (23°C)	6150	4090	MPa	ISO 178
Flexural Stress (23°C)	183	125	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179
-30°C	4.2	4.0	kJ/m²	
23°C	4.8	5.6	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179
-30°C	35	23	kJ/m²	
23°C	45	49	kJ/m²	
Notched Izod Impact Strength				ISO 180
-40°C	4.5	3.8	kJ/m²	
23°C	4.8	5.0	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	222	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146
Flammability	Dry	Conditioned		Test Method
Flame Rating (0.800 mm)	V-0	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.050		%	
Processing (Melt) Temp	285 to 300		°C	
Mold Temperature	80.0 to 90.0		°C	
Injection Pressure	3.45 to 10.3		MPa	
Injection Rate	Fast			

Recommended distributors for this material

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