

Ultramid® A3XZG5

Polyamide 66

BASF Corporation

Message:

Ultramid A3XZG5 is an impact-modified, 25% glass fiber reinforced injection molding PA66 grade with improved flame retardance.

Applications

Typical applications include components with high stiffness, dimensional stability and enhanced impact strength such as electrical switches.

General Information				
UL YellowCard		E41871-100744172	E41871-233756	
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Additive		Impact Modifier		
Features		Flame Retardant		
		Good Dimensional Stability		
		Good Impact Resistance		
		High Stiffness		
		Impact Modified		
		Oil Resistant		
Uses		Electrical Parts		
		Switches		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	5.0	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	6500	4500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	105	70.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	6.0	11	%	ISO 527-2
Flexural Modulus (23°C)	5500	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	25	30	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	90	100	kJ/m²	ISO 179

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146
RTI Elec				UL 746
0.750 mm	120	--	°C	
1.50 mm	120	--	°C	
3.00 mm	120	--	°C	
RTI Imp				UL 746
0.750 mm	115	--	°C	
1.50 mm	115	--	°C	
3.00 mm	115	--	°C	
RTI Str				UL 746
1.50 mm	130	--	°C	
3.00 mm	130	--	°C	
Electrical	Dry	Conditioned		Test Method
Dielectric Constant (1 MHz)	3.80	--		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.030		IEC 60250
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
0.750 mm	HB	--		
1.50 mm	V-0	--		
	V-0			
3.00 mm	5VA	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.050		%	
Rear Temperature	285 to 300		°C	
Middle Temperature	285 to 300		°C	
Front Temperature	285 to 300		°C	
Mold Temperature	80.0 to 90.0		°C	
Injection Pressure	3.50 to 12.5		MPa	
Injection Rate	Fast			

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