

Ultramid® A3X2G7

Polyamide 66

BASF Corporation

Message:

Ultramid A3X2G7 is a 35% glass fiber reinforced injection molding PA66 grade with improved flame retardance and enhanced long-term stability. Flame retardant based on red phosphorus; very high stiffness and strength; outstanding mechanical and electrical properties.

General Information				
UL YellowCard		E41871-100718398	E41871-233751	
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Good Electrical Properties		
		Good Stability		
		High Stiffness		
		High Strength		
		Oil Resistant		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	25.0	--	cm³/10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.34	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	11000	8500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	160	120	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	4.0	%	ISO 527-2
Flexural Modulus (23°C)	9200	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	10	--	kJ/m²	
23°C	14	18	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179

-30°C	65	--	kJ/m ²	
23°C	70	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
CLTE				
Flow	1.7E-5	--	cm/cm/°C	
Transverse	6.5E-5	--	cm/cm/°C	
RTI Elec				UL 746
0.400 mm	110	--	°C	
0.750 mm	115	--	°C	
1.50 mm	115	--	°C	
3.00 mm	115	--	°C	
RTI Imp				UL 746
0.400 mm	115	--	°C	
0.750 mm	115	--	°C	
1.50 mm	115	--	°C	
3.00 mm	115	--	°C	
RTI Str				UL 746
0.750 mm	130	--	°C	
1.50 mm	130	--	°C	
3.00 mm	130	--	°C	
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
0.750 mm	V-0	--		
1.50 mm	V-0	--		
3.00 mm	V-0	--		
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	3.50 to 12.5		MPa	
Injection Rate	Fast			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

