

Ultramid® A3X2G5 BK23187

Polyamide 66

BASF Corporation

Message:

Ultramid A3X2G5 BK23187 is a 25% glass fiber reinforced, pigmented black injection molding PA66 grade with improved flame retardance and enhanced long-term performance. Flame retardant based on red phosphorus; outstanding mechanical and electrical properties.

General Information				
UL YellowCard		E36632-531634	E41871-100497758	E41871-233750
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Additive		Flame Retardant 3		
Features		Flame Retardant		
		Good Electrical Properties		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	40.0	--	cm ³ /10min	ISO 1133
Water Absorption				ISO 62
Saturation, 23°C	6.0	--	%	
Equilibrium, 23°C, 50% RH	1.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress (Break, 23°C)	125	--	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	--	%	ISO 527-2
Flexural Modulus (23°C)	6900	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength (23°C)	7.0	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	240	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146
RTI Elec				UL 746
0.400 mm	110	--	°C	
0.810 mm	120	--	°C	

1.50 mm	120	--	°C	
3.00 mm	120	--	°C	
RTI Imp				UL 746
0.400 mm	115	--	°C	
0.810 mm	115	--	°C	
1.50 mm	115	--	°C	
3.00 mm	115	--	°C	
RTI Str				UL 746
0.810 mm	130	--	°C	
1.50 mm	130	--	°C	
3.00 mm	130	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Electric Strength	33	30	kV/mm	IEC 60243-1
Dissipation Factor (1 MHz)	0.020	0.10		IEC 60250
Comparative Tracking Index	550	550	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.810 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			

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