

Ultramid® A 3X2G5 BK23187

Polyamide 66

BASF Corporation

Product Description

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

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 25% Filler by Weight
Features	• Flame Retardant • Good Electrical Properties • Good Stability • Halogen Free • Oil Resistant
Uses	• Electrical Parts • Electrical/Electronic Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1340	kg/m ³	ISO 1183 ²
Melt volume-flow rate (275°C/5.0 kg)	40.0	cm ³ /10min	ISO 1133 ²
Water Absorption			ISO 62 ²
Saturation	6.0	%	
Equilibrium	1.4	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	115	MPa	ISO 527-2 ²
Tensile Strain (Break)	3.0	%	ISO 527-2 ²
Flexural Modulus (23°C)	6900	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	7.00	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	240	°C	ISO 75-2 ²
Melting Temperature (DSC)	260	°C	ISO 3146

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+13	ohms	IEC 60093 ²
Volume resistivity	1.0E+11	ohm·m	IEC 60093 ²
Dissipation Factor (1 MHz)	200		IEC 60250 ²
Comparative tracking index	550		IEC 60112 ²
Electric strength	33	kV/mm	IEC 60243-1 ²

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	V-0		UL 94

UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	130	°C	UL 746
RTI Imp (1.50 mm)	115	°C	UL 746
RTI Elec (1.50 mm)	120	°C	UL 746

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
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	

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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Monday, December 21, 2009

Notes

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

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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