

Nylux 6/G33FL BLK

Polyamide 6
KMI Group, Inc.

Message:

Nylux 6/G33FL BLK is a polyamide 6 (nylon 6) product, which contains a 33% glass fiber reinforced material. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The main characteristics are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage (23°C)	0.25 - 0.55	%	ISO 2577
Water Absorption (23°C, 24 hr)	6.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	140	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/5
Flexural Modulus (23°C)	5800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	215	°C	ISO 75-2/B
1.8 MPa, not annealed	205	°C	ISO 75-2/A
Vicat Softening Temperature	210	°C	ISO 306/B50
Melting Temperature (DSC)	220	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	75 - 85	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Regrind	20	%	

Processing (Melt) Temp	235 - 275	°C
Mold Temperature	70 - 120	°C
Back Pressure	0.300 - 0.500	MPa

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