PA6 GF15 IM BLK

Nylon 6, 15% Glass Fibre Reinforced, Impact Modified, Compound.

PA6 GF15 IM BLK offers enhanced mechanical performance coupled with good surface finish.

General Properties	
Polymer Type	PA6
Filler / Reinforcement	Glass Fibre Reinforced
Processing Method	Injection Moulding
Form	Uniform Granules

Physical Properties	Test Method	Unit	D-A-M
Density	ISO 1183	g/cm³	1.2
Water absorption (humidity)	ISO 62	%	2.2

Mechanical Properties	Test Method	Unit	D-A-M	Conditioned
Tensile Modulus	ISO 527-2	MPa	4800	
Tensile Stress @ Break	ISO 527-2	MPa	100	
Tensile Strain @ Break	ISO 527-2	%	3.5	
Flexural Modulus	ISO 178	MPa	4500	
Flexural Strength	ISO 178	MPa	120	
Charpy Notched Impact	ISO 179/1-eA	kJ/m²	12	
Charpy Unnotched Impact	ISO 179/1-eU	kJ/m²	45	

Thermal Properties	Test Method	Unit	D-A-M
Heat Distortion Temperature @ 0.45MPa	ISO75-2	°C	> 200
Heat Distortion Temperature @ 1.8MPa	ISO75-2	°C	> 175

Flammability Properties	Test Method	Unit	D-A-M
Flame Rating	Internal test (UL94)	*	HB (1.5mm)

Electrical Properties	Test Method	Unit	D-A-M	Conditioned
Surface Resistivity	IEC 60093	ohms	1.00E+14	
Volume Resistivity	IEC 60093	ohms.cm	1.00E+14	
Electric Strength (3mm)	IEC 60243-1	kV/mm	11	
Comparative Tracking Index	IEC 60112	V	525	

Recommended Processing	Unit	
Drying Temperature	°C	80
Drying Time	Hours	2 - 4
Processing Temperatures (Barrel)	°C	250 - 295
Melt temperature range	°C	250 - 300
Mould Temperature	°C	80 - 90

The material is supplied predried. Additional drying will be necessary if the material is open to the air for more than 2 to 3 hours. Redrying is also recommended after prolonged storage in undisturbed original packaging. The appearance of splash marks on the surface of mouldings indicates excessive moisture is present. Excessive drying temperature or duration will lead to progressive yellowing of natural or light colours.

Packaging and Storage

25Kg Moisture proof Aluminium sacks (Standard packaging). May be supplied in Octabins, Big bags, Bulk Silo etc, on request.

Store in dry, well ventilated areas away from heat sources.

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