

AURAMID PA6GF35BK ULT

Polyamide 6
Aurora Manufacturing Ltd

Message:

PA6GF35BK ULT is a general purpose 35% glass filled PA6 black compound manufactured from recycled polymer, containing a high performance mould release / processing additive system.

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Additive	Mold Release		
	Processing Aid		
Recycled Content	Yes		
Features	General Purpose		
	Good Mold Release		
	Good Processability		
Uses	General Purpose		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.50	%	
Water Absorption (23°C, 24 hr)	1.1	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Shore Hardness (Shore D)	86		ISO 868
Ball Indentation Hardness (H 961/30)	195	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	> 145	MPa	ISO 527-2
Tensile Strain (Break)	< 3.0	%	ISO 527-2
Flexural Modulus	7500	MPa	ISO 178
Flexural Stress	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	> 8.5	kJ/m ²	ISO 179/B
Notched Izod Impact Strength	> 6.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	> 200	°C	ISO 75-2/B
1.8 MPa, Unannealed	> 180	°C	ISO 75-2/A
Melting Temperature (DSC) ¹	218	°C	ISO 3146

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+13	ohms	IEC 60093
Electric Strength (2.00 mm)	22	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 100	mm/min	FMVSS 302
Flame Rating	HB		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Rear Temperature	215 to 260	°C	
Middle Temperature	215 to 260	°C	
Front Temperature	215 to 260	°C	
Mold Temperature	80.0	°C	
NOTE			
1.	10°C/min		

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