

EPLON 6 GFR 30 BK

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Eplon 6 is glass fiber reinforced polyamide 6 and is suitable for injection moulding.
This product is available in black and in colours on request.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Appearance	Black		
	Available colors		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.31 - 1.36	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction: 3.00mm	0.70	%	ISO 294-4
Flow direction: 3.00mm	0.40	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	< 0.20	%	ISO 62
Ash Content	28 - 32	%	ISO 3451-4
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	80 - 85		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7000 - 8500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	110 - 140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0 - 4.0	%	ISO 527-2
Flexural Modulus (23°C)	4500 - 6000	MPa	ISO 178
Flexural Stress (23°C)	130 - 180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0 - 11	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C)	7.0 - 11	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	210	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B
Melting Temperature (DSC)	200 - 230	°C	ISO 3146
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Additional Information			
TEST CONDITIONS: Laboratory conditions are 23 ±2°C and 45-55 % RH.			

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 - 4.0	hr
Processing (Melt) Temp	260	°C

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