

UBESTA 3020 GX12

Polyamide 12

UBE Engineering Plastics, S.A.

Message:

UBESTA 3020 GX12 is a conductive fibre and glass fibre reinforced Polyamide 12 for injection moulding application.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 23% filler by weight		
Features	Good formability		
	Good liquidity		
	Heat resistance, high		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.60	%	ISO 294-4
Flow direction	0.10	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.40	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	126	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	8700	MPa	ISO 178
Flexural Stress	188	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	12	kJ/m ²	ISO 179/1eA
23°C, complete fracture	20	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	177	°C	ISO 75-2/B
1.8 MPa, not annealed	163	°C	ISO 75-2/A
Melting Temperature (DSC)	178	°C	ISO 3146
CLTE - Flow	2.0E-5	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+6	ohms·cm	IEC 60093
Additional Information			

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357. Volume Resistivity, IEC 60093: <1e6 ohm-cm Abrasion Loss, ISO 9352, CS-17, 1000 rev.: 12 mg

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