

UBESTA 3024 GU6L1

Polyamide 12
UBE Engineering Plastics, S.A.

Message:
UBESTA 3024 GU6L1 is a glass fibre reinforced Polyamide 12 for injection moulding application.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	demoulding		
Features	Good formability		
	Good liquidity		
	Good heat aging resistance		
	Excellent appearance		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	3.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.80	%	ISO 294-4
Flow direction	0.20	%	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)	107	MPa	ISO 527-2
Tensile Strain (Break)	6.0	%	ISO 527-2
Flexural Modulus	5800	MPa	ISO 178
Flexural Stress	164	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	15	kJ/m ²	ISO 179/1eA
23°C, complete fracture	24	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	161	°C	ISO 75-2/A

Melting Temperature (DSC)	178	°C	ISO 3146
CLTE - Flow	3.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Additional Information			

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357.Abrasion Loss, ISO 9352, CS-17, 1000 rev.: 12 mg

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