

UBE Nylon 1015GC9

Polyamide 6
UBE Engineering Plastics, S.A.

Message:
Reinforced with glass fiber

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 45% filler by weight		
Forms	Particle		
Part Marking Code	>PA6-GF45		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	0.50	%	Internal method
Flow direction	0.10	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.3	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14800	MPa	ISO 527-2
Tensile Stress (Break)	225	MPa	ISO 527-2
Tensile Strain (Break)	3.3	%	ISO 527-2
Flexural Modulus	14500	MPa	ISO 178
Flexural Stress	360	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	20	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	210	°C	ISO 75-2/A
CLTE - Flow	2.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Relative Permittivity	3.90		IEC 60250
Arc Resistance	138	sec	ASTM D495
Comparative Tracking Index (CTI)	PLC 1		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.760 mm)	HB		UL 94

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