

UBE Nylon 1022B

Polyamide 6
UBE Engineering Plastics, S.A.

Message:
Medium viscosity (Injection, Extrusion)

General Information			
Features	Medium viscosity		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Part Marking Code	>PA6		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Molding Shrinkage			Internal method
Vertical flow direction	1.5	%	Internal method
Flow direction	1.4	%	Internal method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.5	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Flexural Modulus	2700	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	5.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	145	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20	kV/mm	IEC 60243-1
Relative Permittivity	3.50		IEC 60250
Arc Resistance	118	sec	ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.790 mm)	HB		UL 94

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