

UBESTA 3024U

Polyamide 12
UBE Industries, Ltd.

Message:
Medium viscosity (Injection, Extrusion)

General Information			
Features	Medium Viscosity		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Part Marking Code	>PA12<		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	1.2	%	
Flow	0.90	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.70	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	45.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Flexural Stress	59.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	6.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	90.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	°C	ISO 75-2/A
CLTE - Flow	1.3E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Electric Strength	30	kV/mm	IEC 60243-1
Relative Permittivity	2.90		IEC 60250
Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index (CTI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.760 mm)	HB		UL 94

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