

UBE Nylon 1018I

Polyamide 6

UBE Industries, Ltd.

Message:

High impact resistant

General Information			
Features	High Impact Resistance		
Forms	Pellets		
Part Marking Code	>PA6-I<		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow	1.5	%	
Flow	1.1	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2
Tensile Stress (Yield)	45.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2
Flexural Modulus	1400	MPa	ISO 178
Flexural Stress	55.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	150	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	75.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value		Test Method
Comparative Tracking Index (CTI)	PLC 0		UL 746

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