

Amilan® CM1023G1000

Polyamide 6
Toray Resin Company

Message:

Amilan® CM1023G1000 is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, or North America.
Characteristics include:
Flame Rated
Wear Resistant

General Information			
Features	Good Abrasion Resistance		
Part Marking Code	>PA6-XD<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.13	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	1.0 to 1.6	%	
Flow : 3.00 mm ²	0.50 to 0.90	%	
Water Absorption			ISO 62
23°C, 24 hr	1.8	%	
Saturation, 23°C	11	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	119		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	75.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2
Flexural Modulus (23°C)	2800	MPa	ISO 178
Flexural Stress (23°C)	105	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	6.00	mg	ISO 9352
Coefficient of Friction - vs. Metal ³	0.100 to 0.150		Suzuki Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	182	°C	ISO 75-2/B
Melting Temperature	225	°C	DSC
CLTE - Flow	9.0E-5 to 1.0E-4	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			
1.	80x80x3		
2.	80x80x3mm		

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