

Amilan® CM3903GX010

Polyamide 66
Toray Resin Company

Message:

Amilan® CM3903GX010 is a Polyamide 66 (Nylon 66) product filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America.
Characteristics include:
Flame Rated
Wear Resistant

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Abrasion Resistance		
Part Marking Code	>PA66-GF30<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.43	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.60 to 0.80	%	
Flow : 3.00 mm ²	0.20 to 0.40	%	
Water Absorption			ISO 62
23°C, 24 hr	0.40	%	
Saturation, 23°C	5.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
-40°C	230	MPa	
23°C	160	MPa	
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus			ISO 178
-40°C	8500	MPa	
23°C	8000	MPa	
Flexural Stress			ISO 178
-40°C	300	MPa	
23°C	230	MPa	
Taber Abrasion Resistance (1000 Cycles)	20.0	mg	ISO 9352
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	11	kJ/m ²	
23°C	12	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	262	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	°C	ISO 75-2/A
Melting Temperature	265	°C	DSC
CLTE - Flow	2.0E-5 to 3.0E-5	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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