

Amilan® CM1056K48

Polyamide 6
Toray Resin Company

Message:

Amilan® CM1056K48 is a Polyamide 6 (Nylon 6) product filled with 20% glass fiber. It can be processed by blow molding and is available in Asia Pacific, Europe, or North America. Primary characteristic: high viscosity.

General Information				
Filler / Reinforcement		Glass Fiber,20% Filler by Weight		
Features		High Viscosity		
Uses		Blow Molding Applications		
Processing Method		Blow Molding		
Part Marking Code		>PA6-GF20<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.26	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr	1.2	--	%	
Saturation, 23°C	6.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	119	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°C	190	165	MPa	
23°C	115	70.0	MPa	
80°C	55.0	45.0	MPa	
Tensile Strain				ISO 527-2
Break, -40°C	2.5	3.0	%	
Break, 23°C	3.0	9.0	%	
Break, 80°C	4.0	5.0	%	
Flexural Modulus				ISO 178
-40°C	6000	3400	MPa	
23°C	5200	2600	MPa	
80°C	2300	1000	MPa	
Flexural Stress (23°C)	175	100	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.5	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (-40°C)	12	27	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection
Temperature

0.45 MPa, Unannealed	214	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	184	--	°C	ISO 75-2/A
Melting Temperature	225	--	°C	DSC

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