

Amilan® CM3004G-20

Polyamide 66
Toray Resin Company

Message:

Amilan® CM3004G-20 is a Polyamide 66 (Nylon 66) product filled with 20% glass fiber. It is available in Asia Pacific, Europe, or North America.
Characteristics include:
Flame Rated
Flame Retardant

General Information				
UL YellowCard		E41797-233435		
Filler / Reinforcement		Glass Fiber,20% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogenated		
Part Marking Code		>PA66-GF20FR<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.50	--	g/cm³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow : 3.00 mm ¹	0.80 to 1.2	--	%	
Flow : 3.00 mm ²	0.40 to 0.60	--	%	
Water Absorption				ISO 62
23°C, 24 hr	0.40	--	%	
Saturation, 23°C	4.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	120	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°C	150	--	MPa	
23°C	130	105	MPa	
80°C	85.0	--	MPa	
Tensile Strain				ISO 527-2
Break, -40°C	2.5	--	%	
Break, 23°C	3.0	3.0	%	
Break, 80°C	4.5	--	%	
Flexural Modulus				ISO 178
-40°C	7700	--	MPa	
23°C	7000	4200	MPa	
80°C	4200	--	MPa	

Flexural Stress				ISO 178
-40°C	225	--	MPa	
23°C	210	155	MPa	
80°C	135	--	MPa	
Taber Abrasion Resistance (1000 Cycles)	25.0	--	mg	ISO 9352
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-40°C	7.0	--	kJ/m ²	
23°C	9.5	12	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	50	60	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	245	--	°C	ISO 75-2/B
Melting Temperature	265	--	°C	DSC
CLTE - Flow	4.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	31	26	kV/mm	IEC 60243-1
Dielectric Constant ³				IEC 60250
23°C, 1 kHz	4.00	--		
23°C, 1 MHz	0.0100	--		
Arc Resistance ⁴	70.0	--	sec	UL 746
Comparative Tracking Index (CTI)	210	--	V	UL 746
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.397 mm)	V-0	--		UL 94
NOTE				
1.	80x80x3			
2.	80x80x3mm			
3.	60% RH			
4.	Tungsten Electrode			

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