

Amilan® CM3004G-15

Polyamide 66
Toray Resin Company

Message:

Amilan® CM3004G-15 is a Polyamide 66 (Nylon 66) product filled with 15% glass fiber. It is available in Asia Pacific, Europe, or North America.
Characteristics include:
Flame Rated
Flame Retardant

General Information				
UL YellowCard		E41797-233436		
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogenated		
Part Marking Code		>PA66-GF15FR<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.47	--	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	5.0	--	%	
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	145	--	MPa	
23°C	125	95.0	MPa	
80°C	60.0	--	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	6200	--	MPa	
23°C	5700	3500	MPa	
80°C	2800	--	MPa	

Flexural Stress				ISO 178
-40°C	200	--	MPa	
23°C	190	140	MPa	
80°C	120	--	MPa	
Taber Abrasion Resistance (1000 Cycles)	12.0	--	mg	ISO 9352
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-40°C	4.5	--	kJ/m ²	
23°C	6.0	9.5	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	40	48	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	244	--	°C	ISO 75-2/B
Melting Temperature	265	--	°C	DSC
CLTE - Flow	5.0E-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			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

