

Amilan® CM3001G-15

Polyamide 66
Toray Resin Company

Message:

Amilan® CM3001G-15 is a Polyamide 66 (Nylon 66) product filled with 15% glass fiber. It is available in Asia Pacific, Europe, or North America. Typical application: Automotive. Primary characteristic: flame rated.

General Information				
UL YellowCard		E41797-233429		
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Part Marking Code		>PA66-GF15<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.26	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow : 3.00 mm ¹	1.0 to 1.4	--	%	
Flow : 3.00 mm ²	0.70 to 1.0	--	%	
Water Absorption				ISO 62
23°C, 24 hr	1.0	--	%	
Saturation, 23°C	7.2	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ISO 2039-2
M-Scale, 23°C	95	--		
R-Scale, 23°C	120	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°C	155	145	MPa	
23°C	110	90.0	MPa	
80°C	65.0	50.0	MPa	
Tensile Strain				ISO 527-2
Break, -40°C	2.0	--	%	
Break, 23°C	2.0	4.5	%	
Break, 80°C	7.5	--	%	
Flexural Modulus				ISO 178
-40°C	6600	6300	MPa	
23°C	5800	3700	MPa	
80°C	2800	2200	MPa	
Flexural Stress				ISO 178
-40°C	225	190	MPa	
23°C	180	135	MPa	
80°C	115	85.0	MPa	

Shear Strength (23°C)	80.0	--	MPa	ASTM D732
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	30	--	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature	265	--	°C	DSC
CLTE - Flow	4.0E-5	--	cm/cm/°C	ISO 11359-2
Specific Heat	2000	--	J/kg/°C	
Thermal Conductivity	0.36	--	W/m/K	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12 to 1.0E+13	ohms·cm	IEC 60093
Electric Strength	20	--	kV/mm	IEC 60243-1
Dielectric Constant ³				IEC 60250
23°C, 50 Hz	4.30	--		
23°C, 1 kHz	4.10	--		
23°C, 1 MHz	3.60	--		
Dissipation Factor ⁴				IEC 60250
23°C, 50 Hz	0.040	--		
23°C, 1 kHz	0.040	--		
23°C, 1 MHz	0.040	--		
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.794 mm)	HB	--		UL 94
NOTE				
1.	80x80x3			
2.	80x80x3mm			
3.	60% RH			
4.	60% RH			

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