

Amilan® CM3004-V0

Polyamide 66
Toray Resin Company

Message:

Amilan® CM3004-V0 is a Polyamide 66 (Nylon 66) product. It is available in Asia Pacific, Europe, or North America.
Characteristics include:
Flame Rated
Flame Retardant
Halogen Free

General Information					
UL YellowCard		E41797-233438			
Additive		Flame Retardant			
Features		Flame Retardant			
		Halogen Free			
Part Marking Code		>PA66-FR<			
Physical	Dry	Conditioned	Unit	Test Method	
Density (23°C)	1.19	--	g/cm³	ISO 1183	
Molding Shrinkage - Flow				Internal Method	
1.00 mm ¹	0.60 to 0.90	0.60 to 0.90	%		
3.00 mm ²	1.0 to 1.6	1.0 to 1.6	%		
Water Absorption				ISO 62	
23°C, 24 hr	1.1	--	%		
Saturation, 23°C	7.5	--	%		
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	
23°C	85.0	65.0	MPa		
80°C	45.0	--	MPa		
Tensile Strain (Break, 23°C)	7.5	7.5	%	ISO 527-2	
Flexural Modulus				ISO 178	
23°C	3500	1500	MPa		
80°C	1200	--	MPa		
Flexural Stress				ISO 178	
-40°C	170	--	MPa		
23°C	125	70.0	MPa		
80°C	65.0	--	MPa		
Taber Abrasion Resistance (1000 Cycles)		9.00 to 10.0	--	mg	ISO 9352

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-40°C	4.5	--	kJ/m ²	
23°C	4.5	13	kJ/m ²	
Charpy Unnotched Impact Strength (-40°C)	140 kJ/m ²	No Break		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
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	28	--	kV/mm	IEC 60243-1
Dielectric Constant ³ (23°C, 50 Hz)	5.20	--		IEC 60250
Dissipation Factor ⁴ (23°C, 50 Hz)	0.070	--		IEC 60250
Arc Resistance ⁵	127	--	sec	UL 746
Comparative Tracking Index (CTI)	600	--	V	UL 746
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.397 mm)	V-0	--		UL 94
NOTE				
1.	80x80x1mm			
2.	80x80x3mm			
3.	60% RH			
4.	60% RH			
5.	Tungsten Electrode			

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