

Amilan® CM1014-V0

Polyamide 66
Toray Resin Company

Message:

Amilan® CM1014-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		E41797-233409		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogen Free		
Part Marking Code		>PA6-FR<		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.18	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow				Internal Method
1.00 mm ¹	0.40 to 0.80	--	%	
3.00 mm ²	1.0 to 1.3	--	%	
Water Absorption				ISO 62
23°C, 24 hr	1.7	--	%	
Saturation, 23°C	9.5	--	%	
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	80.0	45.0	MPa	
80°C	40.0	--	MPa	
Tensile Strain				ISO 527-2
Break, 23°C	7.5	37	%	
Break, 80°C	56	--	%	
Flexural Modulus				ISO 178
23°C	3500	1200	MPa	
80°C	1000	--	MPa	
Flexural Stress				ISO 178
-40°C	150	--	MPa	
23°C	115	45.0	MPa	
80°C	55.0	--	MPa	

Taber Abrasion Resistance (1000 Cycles)	5.00 to 6.00	--	mg	ISO 9352
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-40°C	3.5	--	kJ/m ²	
23°C	4.5	22	kJ/m ²	
Charpy Unnotched Impact Strength (-40°C)	120 kJ/m ²	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	207	--	°C	ISO 75-2/B
Melting Temperature	225	--	°C	DSC
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength	30	--	kV/mm	IEC 60243-1
Dielectric Constant ³ (23°C, 1 MHz)	5.20	--		IEC 60250
Dissipation Factor ⁴ (23°C, 1 MHz)	0.080	--		IEC 60250
Arc Resistance ⁵	120	--	sec	UL 746
Comparative Tracking Index (CTI)	600	--	V	UL 746
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.794 mm)	V-0	--		UL 94
NOTE				
1.	80x80x1mm			
2.	80x80x3mm			
3.	60% RH			
4.	60% RH			
5.	Tungsten Electrode			

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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



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