

UNITIKA Nylon 66 A175G15

Polyamide 66

UNITIKA Plastics Division

Message:

UNITIKA Nylon 66 A175G15 is a Polyamide 66 (Nylon 66) material filled with 15% glass fiber. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 66 A175G15: Flame Rated.

Typical applications include:

Electrical/Electronic Applications

Automotive

General Information				
UL YellowCard		E47924-239997		
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Uses		Automotive Electronics		
		Electrical Parts		
		Electrical/Electronic Applications		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.26	1.26	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	1.5	1.5	%	
Flow : 3.20 mm	0.60	0.60	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.9	1.9	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5700	3500	MPa	ISO 527-2
Tensile Stress (Break)	120	73.0	MPa	ISO 527-2
Tensile Strain (Break)	2.5	3.0	%	ISO 527-2
Flexural Modulus	5000	3200	MPa	ISO 178
Flexural Stress	188	110	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	30	39	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	252	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	229	--	°C	ISO 75-2/A
CLTE - Flow	4.2E-5	4.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method

Volume Resistivity	1.0E+14	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	33	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.40	--		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.840 mm)	HB	HB		UL 94

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