

UNITIKA Nylon 6 A1030GFL

Polyamide 6

UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 A1030GFL is a Polyamide 6 (Nylon 6) material filled with 30% glass fabric. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 6 A1030GFL: Flame Rated.

Typical applications include:

Automotive

Construction Applications

Housings

General Information				
UL YellowCard		E47924-239964	E47924-239965	
Filler / Reinforcement		Glass Fabric,30% Filler by Weight		
Uses		Automotive Applications		
		Automotive Electronics		
		Automotive Under the Hood		
		Construction Applications		
		Electrical Housing		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	1.36	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	0.70	0.70	%	
Flow : 3.20 mm	0.20	0.20	%	
Water Absorption				ISO 62
23°C, 24 hr	1.3	1.3	%	
Equilibrium, 23°C, 50% RH	2.0	2.0	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	107		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9600	6000	MPa	ISO 527-2
Tensile Stress (Break)	170	110	MPa	ISO 527-2
Tensile Strain (Break)	3.1	5.3	%	ISO 527-2
Flexural Modulus	8200	5000	MPa	ISO 178
Flexural Stress	250	160	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	11	19	kJ/m ²	ISO 179

Charpy Unnotched Impact Strength	70	85	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	217	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	203	--	°C	ISO 75-2/A
CLTE - Flow	3.1E-5	3.1E-5	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	2.0E+15	7.0E+13	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	42	40	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.30	3.60		IEC 60250
Dissipation Factor (1 MHz)	0.022	0.12		IEC 60250
Comparative Tracking Index	550	550	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	HB	HB		UL 94

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