

UNITIKA Nylon 6 A1030GFL45

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 A1030GFL45 is a Polyamide 6 (Nylon 6) material filled with 45% glass fiber. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 6 A1030GFL45: Flame Rated.
Typical applications include:
Automotive
Construction Applications
Housings

General Information				
UL YellowCard		E47924-239964		
Filler / Reinforcement		Glass Fiber,45% 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	1.50	1.50	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	0.30	0.30	%	
Flow : 3.20 mm	0.10	0.10	%	
Water Absorption				ISO 62
23°C, 24 hr	1.0	1.0	%	
Equilibrium, 23°C, 50% RH	1.5	1.5	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	122	109		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13600	8000	MPa	ISO 527-2
Tensile Stress (Break)	210	150	MPa	ISO 527-2
Tensile Strain (Break)	2.9	4.9	%	ISO 527-2
Flexural Modulus	12400	7600	MPa	ISO 178
Flexural Stress	325	220	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	15	23	kJ/m²	ISO 179

Charpy Unnotched Impact Strength	79	92	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	204	--	°C	ISO 75-2/A
CLTE - Flow	2.3E-5	2.3E-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	--		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 (0.860 mm)	HB	HB		UL 94

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