

UNITIKA Nylon 6 A1022GFL15

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 A1022GFL15 is a Polyamide 6 (Nylon 6) material filled with 15% glass fiber. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 6 A1022GFL15: Flame Rated.
Typical applications include:
Automotive
Construction Applications
Housings

General Information				
UL YellowCard		E47924-239957		
Filler / Reinforcement		Glass Fiber,15% 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	1.23	1.23	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	0.80 to 1.0	0.80 to 1.0	%	
Flow : 3.20 mm	0.30 to 0.50	0.30 to 0.50	%	
Water Absorption				ISO 62
23°C, 24 hr	1.5	1.5	%	
Equilibrium, 23°C, 50% RH	2.4	2.4	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	116	103		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5600	3000	MPa	ISO 527-2
Tensile Stress (Break)	120	70.0	MPa	ISO 527-2
Tensile Strain (Break)	2.7	4.6	%	ISO 527-2
Flexural Modulus	5000	2800	MPa	ISO 178
Flexural Stress	175	100	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	7.0	14	kJ/m²	ISO 179

Charpy Unnotched Impact Strength	23	33	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	214	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	--	°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	2.0E+15	8.0E+13	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	39	36	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.30	--		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.860 mm)	HB	HB		UL 94

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