

UNITIKA Nylon 6 A1022GFL60 (A)

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 A1022GFL60 (A) is a Polyamide 6 (Nylon 6) material filled with 60% glass fiber. It is available in Asia Pacific or North America. Typical applications include:

Automotive
Construction Applications
Housings

General Information				
UL YellowCard		E47924-239957		
Filler / Reinforcement		Glass Fiber,60% 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	1.70	1.70	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	0.70	0.70	%	
Equilibrium, 23°C, 50% RH	1.1	1.1	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17500	10800	MPa	ISO 527-2
Tensile Stress (Break)	240	170	MPa	ISO 527-2
Tensile Strain (Break)	2.6	4.4	%	ISO 527-2
Flexural Modulus	16800	10300	MPa	ISO 178
Flexural Stress	380	265	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	19	26	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	80	93	kJ/m²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	218	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	214	--	°C	ISO 75-2/A
CLTE - Flow	2.2E-5	2.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	2.0E+15	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	42	--	kV/mm	IEC 60243-1

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