

UNITIKA Nylon 6 A1025GO

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 A1025GO is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific or North America.

Important attributes of UNITIKA Nylon 6 A1025GO are:

Flame Rated
Flame Retardant
Typical applications include:
Automotive
Construction Applications
Housings

General Information				
UL YellowCard		E47924-239960		
Features		Flame Retardant		
Uses		Automotive Applications		
		Automotive Electronics		
		Automotive Under the Hood		
		Construction Applications		
		Electrical Housing		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.64	1.64	g/cm³	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 (Equilibrium, 23°C, 50% RH)	1.0	1.0	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	118	102		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10800	7000	MPa	ISO 527-2
Tensile Stress (Break)	148	110	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.5	%	ISO 527-2
Flexural Modulus	9200	6000	MPa	ISO 178
Flexural Stress	250	140	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	9.0	14	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	22	31	kJ/m²	ISO 179

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	200	°C	ISO 75-2/A
CLTE - Flow	3.0E-5	3.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength (1.00 mm)	25	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.80	--		IEC 60250
Dissipation Factor (1 MHz)	0.020	--		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.870 mm)	V-0	V-0		UL 94

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