

UNITIKA Nylon 6 A1025NO

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 A1025NO is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific or North America.

Important attributes of UNITIKA Nylon 6 A1025NO are:

Flame Rated
Flame Retardant

Typical applications include:

Automotive
Construction Applications
Housings

General Information				
UL YellowCard		E47924-239961		
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	1.34	1.34	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	1.5	1.5	%	
Flow : 3.20 mm	1.1	1.1	%	
Water Absorption				ISO 62
23°C, 24 hr	1.2	1.2	%	
Equilibrium, 23°C, 50% RH	1.9	1.9	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	116	97		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	1800	MPa	ISO 527-2
Tensile Stress (Break)	77.0	41.0	MPa	ISO 527-2
Tensile Strain (Break)	3.4	4.0	%	ISO 527-2
Flexural Modulus	3000	1500	MPa	ISO 178
Flexural Stress	110	60.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength	3.0	10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	35	51	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	170	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	66.0	--	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	1.0E-4	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+16	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	25	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.00	--		IEC 60250
Dissipation Factor (1 MHz)	0.010	--		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.840 mm)	V-0	V-0		UL 94

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