

UNITIKA Nylon 6 EX-1222

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 EX-1222 is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 6 EX-1222: Impact Resistant.
Typical applications include:
Automotive
Construction Applications
Housings

General Information				
Features		High Impact Resistance		
Uses		Automotive Applications		
		Automotive Electronics		
		Automotive Under the Hood		
		Construction Applications		
		Electrical Housing		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	1.07	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	1.4	1.4	%	
Flow : 3.20 mm	1.2	1.2	%	
Water Absorption				ISO 62
23°C, 24 hr	1.5	1.5	%	
Equilibrium, 23°C, 50% RH	2.2	2.2	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1900	710	MPa	ISO 527-2
Tensile Stress (Yield)	46.0	32.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	4.0	--	%	
Break	120	> 200	%	
Flexural Modulus	1800	700	MPa	ISO 178
Flexural Stress	62.0	26.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	65 kJ/m ²	No Break		ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	95.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	54.0	--	°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	3.0E+15	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	42	--	kV/mm	IEC 60243-1
Dissipation Factor (1 MHz)	0.020	--		IEC 60250

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