

UNITIKA Nylon 6 A1030TF

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 A1030TF is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 6 A1030TF: Lubricated.
Typical applications include:
Automotive
Construction Applications
Housings

General Information				
Additive		Lubricant		
Features		Lubricated		
Uses		Automotive Applications		
		Automotive Electronics		
		Automotive Under the Hood		
		Construction Applications		
		Electrical Housing		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	1.18	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	1.8	1.8	%	
Flow : 3.20 mm	1.5	1.5	%	
Water Absorption				ISO 62
23°C, 24 hr	1.6	1.6	%	
Equilibrium, 23°C, 50% RH	2.5	2.5	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	116	95		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	840	MPa	ISO 527-2
Tensile Stress (Yield)	68.0	42.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	4.0	--	%	
Break	15	28	%	
Flexural Modulus	2500	800	MPa	ISO 178
Flexural Stress	90.0	30.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength	3.0	12	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	82	120	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	120	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	53.0	--	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	3.0E+15	7.0E+14	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.40	--		IEC 60250
Dissipation Factor (1 MHz)	0.020	--		IEC 60250

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