

UNITIKA Nylon 6 M1030DH

Polyamide 6
UNITIKA Plastics Division

Message:
Nano composite nylon

General Information				
UL YellowCard		E47924-465547		
Uses		Automotive Applications Automotive Electronics Automotive Under the Hood Construction Applications Electrical Housing		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	1.15	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	1.0	1.0	%	
Flow : 3.20 mm	0.80	0.80	%	
Water Absorption				ISO 62
23°C, 24 hr	0.90	0.90	%	
Equilibrium, 23°C, 50% RH	2.8	2.8	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	114	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4300	2600	MPa	ISO 527-2
Tensile Stress (Break)	95.0	63.0	MPa	ISO 527-2
Tensile Strain (Break)	3.4	4.0	%	ISO 527-2
Flexural Modulus	4500	2500	MPa	ISO 178
Flexural Stress	155	66.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	57	70	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	186	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	140	--	°C	ISO 75-2/A
CLTE - Flow	5.3E-5	5.3E-5	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	42	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.70	--		IEC 60250
Dissipation Factor (1 MHz)	0.019	--		IEC 60250
Comparative Tracking Index	475	475	V	IEC 60112

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