

UNITIKA Nylon 6 A1030SR

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 A1030SR is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific or North America.

Important attributes of UNITIKA Nylon 6 A1030SR are:

Flame Rated

Fast Molding Cycle

Typical applications include:

Automotive

Construction Applications

Housings

General Information				
UL YellowCard		E47924-239955	E47924-239971	
Features		Fast Molding Cycle		
Uses		Automotive Applications		
		Automotive Electronics		
		Automotive Under the Hood		
		Construction Applications		
		Electrical Housing		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	1.13	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	1.3	1.3	%	
Flow : 3.20 mm	1.0	1.0	%	
Water Absorption				ISO 62
23°C, 24 hr	1.8	1.8	%	
Equilibrium, 23°C, 50% RH	2.8	2.8	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	112	90		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2600	940	MPa	ISO 527-2
Tensile Stress (Yield)	78.0	38.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	4.0	24	%	
Break	45	> 200	%	
Flexural Modulus	2500	900	MPa	ISO 178
Flexural Stress	99.0	34.0	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	41	kJ/m ²	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	162	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	59.0	--	°C	ISO 75-2/A
CLTE - Flow	9.6E-5	9.6E-5	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	3.0E+15	8.0E+13	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	37	33	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.40	3.70		IEC 60250
Dissipation Factor (1 MHz)	0.020	0.080		IEC 60250
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	V-2	V-2		UL 94

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

