

UNITIKA Nylon 6 EX-1030

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 EX-1030 is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 6 EX-1030: 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	1.04	1.04	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	1.6	1.6	%	
Flow : 3.20 mm	1.2	1.2	%	
Water Absorption				ISO 62
23°C, 24 hr	1.3	1.3	%	
Equilibrium, 23°C, 50% RH	2.0	2.0	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	93	65		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1500	600	MPa	ISO 527-2
Tensile Stress (Yield)	39.0	28.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	5.0	--	%	
Break	> 200	> 200	%	
Flexural Modulus	1500	600	MPa	ISO 178
Flexural Stress	53.0	21.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	91 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	82.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	47.0	--	°C	ISO 75-2/A
CLTE - Flow	1.2E-4	1.2E-4	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	3.0E+15	3.0E+14	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	42	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.90	--		IEC 60250
Dissipation Factor (1 MHz)	0.020	--		IEC 60250

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

