

UNITIKA Nylon 6 M1030B

Polyamide 6
UNITIKA Plastics Division

Message:
Nano composite nylon

General Information				
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.14	1.14	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow: 3.20mm	0.80	0.80	%	ASTM D955
Transverse flow: 3.20mm	1.0	1.0	%	ASTM D955
Water Absorption				
23°C, 24 hr	1.0	1.0	%	
Balanced, 23°C, 50%RH	2.8	2.8	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	113	90		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Break)	85.0	55.0	MPa	ASTM D638
Tensile Elongation (Break)	20	35	%	ASTM D638
Flexural Modulus	3700	1500	MPa	ASTM D790
Flexural Strength	133	50.0	MPa	ASTM D790
Compressive Strength	85.0	60.0	MPa	ASTM D695
Shear Strength	62.0	48.0	MPa	ASTM D732
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	40	250	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	190	--	°C	ASTM D648
1.8 MPa, not annealed	120	--	°C	ASTM D648
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	ASTM D257
Dielectric Strength ¹	27	--	kV/mm	ASTM D149
NOTE				

1. Method A (short time)

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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



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