

SABIC Innovative Plastics LNP COLORCOMP I1000 PA6.12

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* COLORCOMP* I1000 is an unfilled Nylon 6/12

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-I1000-PA612.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	5 mm/min; ISO 527
Elongation at Break	100 %	100 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.5 %	4.5 %	5 mm/min; ISO 527
Tensile Modulus	2.39 GPa	347 ksi	1 mm/min; ISO 527

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	55.0 °C	131 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	27 %	27 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	ASTM D257
Dielectric Constant	3.2	3.2	ASTM D150
	@Frequency 1.00e+6	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
	3.6	3.6	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.014	0.014	ASTM D150
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	0.020	0.020	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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