

Multibase Nylex™ 1404 NAT Polyamide + PP

Category : Polymer , Thermoplastic , Nylon , Polypropylene (PP)

Material Notes:

Features: Crack Resistance, Good Dimensional Stability, Good Impact Resistance, Good Moisture Resistant Processability,
 Good Forms: Pellets Processing Methods: Injection Molding Uses: Electrical Parts Housing, Electrical Safety Equipment Information provided
 by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Nylex-1404-NAT-Polyamide-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	ASTM 792
Water Absorption	0.65 %	0.65 %	ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955
Melt Flow	4.7 g/10 min @Load 2.16 kg, Temperature 230 °C	4.7 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	26.8 MPa	3880 psi	ASTM D638
Elongation at Break	140 %	140 %	ASTM D638
Flexural Strength	28.7 MPa	4160 psi	ASTM D790
Flexural Modulus	0.965 GPa	140 ksi	Tangent; ASTM D790
Izod Impact, Notched	1.47 J/cm	2.75 ft-lb/in	73°F; ASTM D256
Gardner Impact	35.70 J	26.33 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	134 °C	273 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	205 °C	401 °F	
Middle Barrel Temperature	208 °C	406 °F	

Front Barrel Temperature Processing Properties	213 °C Metric	415 °F English	Comments
Nozzle Temperature	213 °C	415 °F	
Mold Temperature	13.0 - 47.8 °C	55.4 - 118 °F	
Injection Pressure	2.41 - 8.27 MPa	350 - 1200 psi	
Back Pressure	0.345 - 1.03 MPa	50.0 - 150 psi	

Descriptive Properties	Value	Comments
Injection Rate	Moderate-Fast	

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