

LNP Konduit® ITF-212-11 Polyamide 6/12 Copolymer (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Unreinforced

Material Notes:

Features: Thermally ConductiveForms: PelletsProcessing Method: Injection MoldingInformation provided by LNP, a GE Plastics

Company.This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-Konduit-ITF-212-11-Polyamide-612-Copolymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.015 cm/cm	0.015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	79.3 MPa	11500 psi	ASTM D638
Tensile Strength, Yield	79.3 MPa	11500 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ASTM D638
Elongation at Yield	2.1 %	2.1 %	ASTM D638
Tensile Modulus	9.98 GPa	1450 ksi	ASTM D638
Flexural Strength	145 MPa	21000 psi	ASTM D790
Flexural Modulus	9.26 GPa	1340 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm @Thickness 3.18 mm	0.599 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	4.22 J/cm @Thickness 3.18 mm	7.91 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	4.20 kJ/m²	2.00 ft-lb/in²	ISO 180
Izod Impact, Unnotched (ISO)	28.1 kJ/m²	13.4 ft-lb/in²	ISO 180
Falling Dart Impact	8.47 J	6.25 ft-lb	ASTM D3763
Impact Test	1.92 J	1.42 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.10 W/m-K	7.63 BTU-in/hr-ft²-°F	Tested in accordance with ASTM

Thermal Properties	Metric	English	F433: ASTM C177 Comments
Deflection Temperature at 1.8 MPa (264 psi)	168 °C	334 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	268 - 274 °C	514 - 525 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.020 %	0.020 %	Suggested
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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