

Isoflon PA 6 Polyamide 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

General use for mechanical parts Good heat resistance Easy to use High moisture regain Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PA-6-Polyamide-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	DIN 53479
Water Absorption	3.0 %	3.0 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength	70.0 MPa	10200 psi	DIN 53455
Elongation at Break	50 %	50 %	DIN 53455
Tensile Modulus	2.80 GPa	406 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	85.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	47.2 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	DIN 52328
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	220 °C	428 °F	DIN 53736
Maximum Service Temperature, Air	90.0 °C	194 °F	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	Continuous; DIN 52612
Flammability, UL94	V-2	V-2	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	DIN 53482
Dielectric Constant	3.7	3.7	DIN 53483
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	16.0 - 25.0 kV/mm	406 - 635 kV/in	DIN 53481

Descriptive Properties	Value	Comments
Color	Nat./Black	

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