

Isoflon PA 6.6 Polyamide 6.6

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

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-66-Polyamide-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	DIN 53479
Water Absorption	2.5 %	2.5 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength	80.0 MPa	11600 psi	DIN 53455
Elongation at Break	25 %	25 %	DIN 53455
Tensile Modulus	3.30 GPa	479 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	85.0 $\mu\text{m/m}\cdot^\circ\text{C}$	47.2 $\mu\text{in/in}\cdot^\circ\text{F}$	DIN 52328
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft $^2\cdot^\circ\text{F}$	DIN 52612
Melting Point	255 $^\circ\text{C}$	491 $^\circ\text{F}$	DIN 53736
Maximum Service Temperature, Air	120 $^\circ\text{C}$	248 $^\circ\text{F}$	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	104 $^\circ\text{C}$	219 $^\circ\text{F}$	
Minimum Service Temperature, Air	-40.0 $^\circ\text{C}$	-40.0 $^\circ\text{F}$	Continuous; DIN 52612
Flammability, UL94	V-2	V-2	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	DIN 53482
Dielectric Constant	4.0	4.0	DIN 53483
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.0 - 27.0 kV/mm	457 - 686 kV/in	DIN 53481

Descriptive Properties	Value	Comments
Color	Nat./Black	

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