

Isoflon PA 12 Polyamide 12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PA-12-Polyamide-12.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	DIN 53479
Water Absorption	0.80 %	0.80 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength	44.0 MPa	6380 psi	DIN 53455
Elongation at Break	150 %	150 %	DIN 53455
Tensile Modulus	1.55 GPa	225 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	110 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	61.1 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	DIN 52328
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Melting Point	185 $\text{Å}^\circ\text{C}$	365 $\text{Å}^\circ\text{F}$	DIN 53736
Maximum Service Temperature, Air	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	54.0 $\text{Å}^\circ\text{C}$	129 $\text{Å}^\circ\text{F}$	
Minimum Service Temperature, Air	-50.0 $\text{Å}^\circ\text{C}$	-58.0 $\text{Å}^\circ\text{F}$	Continuous; DIN 52612

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	DIN 53482
Dielectric Constant	3.5	3.5	DIN 53483
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.0 - 30.0 kV/mm	508 - 762 kV/in	DIN 53481

Descriptive Properties	Value	Comments
Color	Nat.	

Contact Songhan Plastic Technology Co.,Ltd.

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