

## Isoflon PA 6G Cast Polyamide 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Cast

### 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-6G-Cast-Polyamide-6.php](http://www.lookpolymers.com/polymer_Isoflon-PA-6G-Cast-Polyamide-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	DIN 53479
Water Absorption	2.0 %	2.0 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D785
Tensile Strength	75.0 MPa	10900 psi	DIN 53455
Elongation at Break	60 %	60 %	DIN 53455
Tensile Modulus	2.40 GPa	348 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	41.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 52328
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DIN 52612
Melting Point	220 $\text{Å}^\circ\text{C}$	428 $\text{Å}^\circ\text{F}$	DIN 53736
Maximum Service Temperature, Air	100 $\text{Å}^\circ\text{C}$	212 $\text{Å}^\circ\text{F}$	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	95.0 $\text{Å}^\circ\text{C}$	203 $\text{Å}^\circ\text{F}$	
Minimum Service Temperature, Air	-40.0 $\text{Å}^\circ\text{C}$	-40.0 $\text{Å}^\circ\text{F}$	Continuous; DIN 52612
Flammability, UL94	V-2	V-2	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	DIN 53482
Dielectric Constant	3.7	3.7	DIN 53483
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	19.0 - 29.0 kV/mm	483 - 737 kV/in	DIN 53481

Descriptive Properties	Value	Comments
Color	Nat.	

## Contact Songhan Plastic Technology Co.,Ltd.

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