

Isoflon PC Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Extruded

Material Notes:

Good impact resistance among transparent materials
Information provided by Isoflon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Isoflon-PC-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	DIN 53479
Water Absorption	0.15 %	0.15 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ASTM D785
Tensile Strength	70.0 MPa	10200 psi	DIN 53455
Elongation at Break	50 %	50 %	DIN 53455
Tensile Modulus	2.30 GPa	334 ksi	DIN 53457

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 $\mu\text{m/m-}^{\circ}\text{C}$	36.1 $\mu\text{in/in-}^{\circ}\text{F}$	DIN 52328
Thermal Conductivity	0.210 W/m-K	1.46 BTU-in/hr-ft $^{\circ}\text{F}$	DIN 52612
Melting Point	220 $^{\circ}\text{C}$	428 $^{\circ}\text{F}$	DIN 53736
Maximum Service Temperature, Air	115 $^{\circ}\text{C}$	239 $^{\circ}\text{F}$	Continuous; DIN 52612
Deflection Temperature at 1.8 MPa (264 psi)	135 $^{\circ}\text{C}$	275 $^{\circ}\text{F}$	
Minimum Service Temperature, Air	-60.0 $^{\circ}\text{C}$	-76.0 $^{\circ}\text{F}$	Continuous; DIN 52612
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	DIN 53482

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	DIN 53483
Dielectric Strength	28.0 - 30.0 kV/mm	711 - 762 kV/in	DIN 53481

Descriptive Properties	Value	Comments
Color	Transparent	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China