

Stratasys® Polycarbonate-ISO

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

PC-ISO (polycarbonate-ISO), an industrial thermoplastic, in its raw state meets the ISO 10993-1 and USP Class VI classification¹ and comes in a variety of colors. Because of their strength and medical compatibility, PCISO blends are commonly used in food and drug packaging and medical device manufacturing. PC-ISO gives you Real Parts^â,ç that can be functionally utilized from conceptual prototyping through design verification through direct digital manufacturing. Information provided by Stratasys®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stratasys-Polycarbonate-ISO.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	52.0 MPa	7540 psi	Type 1, 2"/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Tensile Modulus	1.744 GPa	252.9 ksi	Type 1, 2"/min; ASTM D638
Flexural Strength	82.0 MPa	11900 psi	ASTM D790
Flexural Modulus	2.193 GPa	318.1 ksi	ASTM D790
Izod Impact, Notched	0.5339 J/cm	1.000 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.805 J/cm	9.002 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	133 Â°C	271 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	261 Â°F	ASTM D648
Vicat Softening Point	139 Â°C	282 Â°F	ISO 306
Glass Transition Temp, Tg	161 Â°C	322 Â°F	DMA (SSYS)
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.96	2.96	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	IEC 60250

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