

Polymer Resources PC-FD4 Polycarbonate, FDA-compliant Feedstocks, Easy Flow, Gamma Resistant

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Gamma Radiation Resistant

Material Notes:

Polycarbonate, FDA-compliant Feedstocks, Easy Flow, Gamma Resistant Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-PC-FD4-Polycarbonate-FDA-compliant-Feedstocks-Easy-Flow-Gamma-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	18 - 30 g/10 min @Load 1.20 kg, Temperature 300 °C	18 - 30 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D785
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	65.5 MPa	9500 psi	ASTM D638
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Strength	92.4 MPa	13400 psi	ASTM D790
Flexural Modulus	2.28 GPa	330 ksi	ASTM D790
Izod Impact, Notched	6.41 J/cm @Temperature 22.8 °C	12.0 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	36.2 J	26.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	129 °C	265 °F	ASTM D648
Deflection Temperature at 1.8 MPa	124 °C	255 °F	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Vicat Softening Point	141 °C	285 °F	120°C/h, 50 N; ASTM D1525
Flammability, UL94	V-2	V-2	
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	V-2	V-2	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
UV Transmittance	88 %	88 %	ASTM D1003

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	249 - 271 °C	480 - 520 °F	
Middle Barrel Temperature	260 - 282 °C	500 - 540 °F	
Front Barrel Temperature	271 - 293 °C	520 - 560 °F	
Melt Temperature	266 - 293 °C	510 - 560 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	118 - 124 °C	245 - 255 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

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