

Polymer Resources PC-BR1 Polycarbonate, Branched for Extrusion and Blow Molding

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

Material Notes:

Polycarbonate, Branched for Extrusion and Blow Molding Features: • Ultra High Impact Resistance • Ultra High Viscosity Process:

Extrusion/Blow 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-BR1-Polycarbonate-Branched-for-Extrusion-and-Blow-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
Melt Flow	1.0 - 5.0 g/10 min @Load 1.20 kg, Temperature 300 °C	1.0 - 5.0 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	66.2 MPa	9600 psi	ASTM D638
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Flexural Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.31 GPa	335 ksi	ASTM D790
Izod Impact, Notched	7.47 J/cm @Temperature 22.8 °C	14.0 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)	132 °C	270 °F	ASTM D648
Deflection Temperature at 1.8 MPa	127 °C	260 °F	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Vicat Softening Point	154 °C	310 °F	120°C/h, 50 N; ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	HB	HB	
	@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	299 - 321 °C	570 - 610 °F	
Middle Barrel Temperature	310 - 332 °C	590 - 630 °F	
Front Barrel Temperature	321 - 343 °C	610 - 650 °F	
Melt Temperature	316 - 343 °C	600 - 650 °F	
Mold Temperature	82.2 - 116 °C	180 - 240 °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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