Kazanorgsintez PC-010 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Production Method: Obtained by means of polycondensation method. Application: Intended for product manufacture by method of die-casting.Information Provided by Kazanorgsintez

Order this product through the following link:
http://www.lookpolymers.com/polymer_Kazanorgsintez-PC-010-Polycarbonate.php

Physical Properties	Metric	English	Comments
Melt Flow	8.5 - 11.5 g/10 min @Load 1.20 kg, Temperature 300 Â°C	8.5 - 11.5 g/10 min @Load 2.65 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 55.0 MPa	>= 7980 psi	2nd Grade
	>= 58.0 MPa	>= 8410 psi	1st Grade
	>= 60.0 MPa	>= 8700 psi	Superior Quality
Elongation at Break	>= 80 %	>= 80 %	2nd Grade
	>= 100 %	>= 100 %	Superior Quality, 1st Grade
Flexural Modulus	2.00 GPa	290 ksi	2nd Grade
	2.25 GPa	326 ksi	Superior Grade, 1st Grade
Transverse Strength	>= 70.0 MPa	>= 10200 psi	at max sample load
	>= 80.0 MPa	>= 11600 psi	at max sample load
Compressive Yield Strength	>= 70.0 MPa	>= 10200 psi	1st Grade, 2nd Grade
	>= 76.0 MPa	>= 11000 psi	Superior Quality
Izod Impact, Unnotched (ISO)	66.0 kJ/mÂ²	31.4 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	>= 147 Â°C	>= 297 Â°F	

Optical Properties	Metric	English	Comments
Yellow Index	1.6 - 2.2 %	1.6 - 2.2 %	Superior Grade
	1.0 - 3.5 %	1.0 - 3.5 %	1st Grade

Optical Properties	Metric	English	Comments
Transmission, Visible	85 %	85 %	2nd Grade
	89 %	89 %	Superior Quality, 1st Grade
	>= 90 %	>= 90 %	Superior Grade, 1st Grade

Electrical Properties	Metric	English	Comments
Dielectric Constant	<= 3.1 @Frequency 1000 Hz	<= 3.1 @Frequency 1000 Hz	Superior Quality
Dielectric Strength	>= 20.0 kV/mm	>= 508 kV/in	Superior Quality
Dissipation Factor	<= 0.0090 @Frequency 1000 Hz	<= 0.0090 @Frequency 1000 Hz	Superior Quality

Descriptive Properties	Value	Comments
Amount of impurities [pcs]	10	1st Grade
	5	Superior Quality
Turbidity	0.8	Superior Grade, 1st Grade
	1	2nd Grade

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