

Kazanorgsintez PC-003 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kazanorgsintez-PC-003-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	$\leq 0.792 \text{ g/cc}$	$\leq 0.0286 \text{ lb/in}^3$	2nd Grade
Melt Flow	1.5 - 3.5 g/10 min @Load 1.20 kg, Temperature 300 °C	1.5 - 3.5 g/10 min @Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	$\geq 55.0 \text{ MPa}$	$\geq 7980 \text{ psi}$	2nd Grade
	$\geq 58.0 \text{ MPa}$	$\geq 8410 \text{ psi}$	1st Grade
	$\geq 60.0 \text{ MPa}$	$\geq 8700 \text{ psi}$	Superior Quality
Elongation at Break	$\geq 75 \%$	$\geq 75 \%$	2nd Grade
	$\geq 90 \%$	$\geq 90 \%$	Superior Quality, 1st Grade
Flexural Modulus	2.00 GPa	290 ksi	2nd Grade
	2.25 GPa	326 ksi	Superior Grade, 1st Grade
Transverse Strength	$\geq 80.0 \text{ MPa}$	$\geq 11600 \text{ psi}$	2nd Grade, at max sample load
	$\geq 90.0 \text{ MPa}$	$\geq 13100 \text{ psi}$	Superior Quality, 1st Grade, at max sample load
Compressive Yield Strength	$\geq 68.0 \text{ MPa}$	$\geq 9860 \text{ psi}$	1st Grade, 2nd Grade
	$\geq 74.0 \text{ MPa}$	$\geq 10700 \text{ psi}$	Superior Quality
Izod Impact, Unnotched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	2nd Grade
	66.0 kJ/m ²	31.4 ft-lb/in ²	Superior Grade, 1st Grade

Thermal Properties	Metric	English	Comments
Vicat Softening Point	$\geq 147 \text{ }^{\circ}\text{C}$	$\geq 297 \text{ }^{\circ}\text{F}$	

Optical Properties	Metric	English	Comments
Yellow Index	1.0 - 2.5 %	1.0 - 2.5 %	Superior Grade
Transmission, Visible	82 %	82 %	2nd Grade
	86 %	86 %	Superior Quality, 1st Grade
	>= 89 %	>= 89 %	Superior Grade, 1st Grade

Component Elements Properties	Metric	English	Comments
Free Water	<= 0.50 %	<= 0.50 %	1st Grade
	<= 0.80 %	<= 0.80 %	2nd Grade

Descriptive Properties	Value	Comments
Mass Content (%)	0.002	Mass content of acids as defined by acetic acid, 1st Grade
	0.003	Mass content of acids as defined by acetic acid, 2nd Grade
	99	Mass content of acetone, 2nd Grade
	99.5	Mass content of acetone, 1st Grade
	99.75	Mass content of acetone, Premium Grade
Turbidity	1	Superior Grade, 1st Grade

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