

Kostrate® PC

Polycarbonate

Plastic Selection Group, Inc.

Message:

Kostrate® PC is a clear polycarbonate resin that combines crystal clarity and rigidity with superior toughness.

General Information			
Features	Good Stiffness		
	Good Toughness		
	High Clarity		
Agency Ratings	FDA 21 CFR 177.1580		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	17	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.3	MPa	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	2250	MPa	ASTM D790
Flexural Strength (Yield)	84.8	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	140	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	V-2		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	87.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Rear Temperature	249 to 271	°C	
Middle Temperature	260 to 271	°C	
Front Temperature	271 to 288	°C	
Nozzle Temperature	266 to 282	°C	
Processing (Melt) Temp	277 to 293	°C	
Mold Temperature	71.1 to 93.3	°C	
Back Pressure	0.345 to 1.38	MPa	

Screw Speed

40 to 80

rpm

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Recommended distributors for this material

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