

ColorFast® PC230LD

Americhem - Polycarbonate

General Information
Product Description

PC230 is a high flow injection molding grade of translucent white PC formulated with light diffusing technology. It is suitable for applications requiring light diffusion and light transmission properties.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Excellent Colorability		
Uses	• Automotive Applications	• Engineering Parts	• Industrial Applications
	• Closures	• Household Goods	• Industrial Parts
	• Consumer Applications	• Housings	• Office Automation Equipment
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	23	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	9000	psi	ASTM D638
Tensile Elongation ² (Yield)	10	%	ASTM D638
Flexural Modulus ²	348000	psi	ASTM D790
Flexural Strength ²	13000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	3.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	265	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	248	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	460 to 500	°F
Middle Temperature	485 to 535	°F
Front Temperature	515 to 560	°F
Nozzle Temperature	515 to 580	°F
Processing (Melt) Temp	515 to 580	°F
Mold Temperature	150 to 225	°F
Injection Pressure	10000 to 15000	psi

