

Next PC CX-02BK

Polycarbonate

Next Polymers Ltd.

Message:

Description
PC UnFilled Black Compound
Product Applications
Electrical/Electronics, Housing Appliance, Industrial, Medical & health care application
Benefits
Good dimensional stability, High heat resistance

General Information			
Features	Good Dimensional Stability		
	High Heat Resistance		
Uses	Electrical/Electronic Applications		
	Housings		
	Industrial Applications		
	Medical/Healthcare Applications		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
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)	20	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.50	%	
Across Flow	0.50	%	
Water Absorption			ASTM D570
23°C, 24 hr	0.30	%	
Saturation ¹	0.35	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ASTM D638
Tensile Strength	60.0	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	2200	MPa	ASTM D790
Flexural Strength	94.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (Area)			ASTM D256
-30°C	10.0	kJ/m ²	
23°C	60.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	135	°C	
1.8 MPa, Unannealed	124	°C	
Vicat Softening Temperature	140	°C	ASTM D1525
CLTE - Flow (23 to 80°C)	7.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.20	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Electric Strength	27	kV/mm	IEC 60243-1
Dielectric Constant (60 Hz)	3.00		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature - Hot Air Dryer	120	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	270 to 280	°C	
Middle Temperature	280 to 290	°C	
Front Temperature	290 to 300	°C	
Mold Temperature	80.0 to 110	°C	
NOTE			
1.	Immersed		

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