

CX-01BK

PC

Next Polymers Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-
Mold Shrinkage, MD	0.005	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.005	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	2300	MPa	ASTM D 638
Tensile Strength	62	MPa	ASTM D 638
Elongation at Break	70	%	ASTM D 638
Flexural Modulus	2300	MPa	ASTM D 790
Flexural Strength	92	MPa	ASTM D 790
Rockwell Hardness	R 120	-	ASTM D 785
Izod Impact notched, 1/8 in	638	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	118	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
ASTM Data			
UL 94 Flame rating	V-2	-	UL 94
Thickness tested	0.8	mm	-
DTUL @ 66 psi	136	°C	ASTM D 648
DTUL @ 264 psi	125	°C	ASTM D 648
Vicat Temperature	140	°C	ASTM D 1525
Thermal Conductivity, solid state	0.0288	W/(m K)	ASTM C 177

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	1E15	Ohm	IEC 62631-3-2
Electric strength	30	kV/mm	IEC 60243-1
ASTM Data			
Dielectric Constant, 60 Hz	3	-	ASTM D 150

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.3	%	ASTM D 570
Water Absorption, Equilibrium	0.35	%	ASTM D 570
Density	1200	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Delivery form

Black

Special Characteristics

Heat stabilized or stable to heat

Applications

Automotive, Building Construction, Electrical and Electronical, Encapsulation, Medical

Regional Availability

Asia Pacific