+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
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LNP Stat-Kon* D- FR ECO

Polycarbonate

SABIC Innovative Plastics Asia Pacific

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific	
Filler / Reinforcement	• Carbon Powder	
Features	• Bromine Free • Chlorine Free	• Electrically Conductive • Flame Retardant
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm³	ASTM D792A
Molding Shrinkage			
Flow: 24 hr	0.40	%	ASTM D955
Across Flow: 24 hr	0.40	%	ASTM D955 ISO 294-4
Flow: 24 hr	0.39	%	ISO 294-4
Water Absorption			
24 hr	0.10	%	ASTM D570
24 hr, 23°C	0.14	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	3450	MPa	ASTM D638
--	3750	MPa	ISO 527-2
Tensile Strength			
Yield	64.1	MPa	ASTM D638
Yield	64.6	MPa	ISO 527-2
Break	64.1	MPa	ASTM D638
Break	64.6	MPa	ISO 527-2
Tensile Elongation			
Yield	3.6	%	ASTM D638
Yield	3.2	%	ISO 527-2
Break	3.6	%	ASTM D638
Break	3.2	%	ISO 527-2
Flexural Modulus	3520	MPa	ASTM D790 ISO 178
Flexural Strength			
--	110	MPa	ASTM D790
--	103	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
3.18 mm	21.4	J/m	ASTM D256
--	2.40	kJ/m²	ISO 180
Unnotched Izod Impact			
3.18 mm	550	J/m	ASTM D256
--	37.0	kJ/m²	ISO 180
Instrumented Dart Impact			
--	1.93	J	ASTM D3763
--	0.700	J	ISO 6603-2

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Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	86.7	°C	ASTM D648
0.45 MPa, Unannealed	88.4	°C	ISO 75-2/B
1.8 MPa, Unannealed	82.2	°C	ASTM D648
1.8 MPa, Unannealed	82.0	°C	ISO 75-2/A
CLTE			ASTM E831 ISO 11359-2
Flow	0.000052	cm/cm/°C	
Transverse	0.000052	cm/cm/°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D4496

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.70 mm)	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	252 to 288	°C
Mold Temperature	37.8 to 65.6	°C
Back Pressure	0.172 to 0.345	MPa

Notes
[1] Typical properties: these are not to be construed as specifications.