

Lucon® CP6052

Polycarbonate + ABS

LG Chem Ltd.

Message:

Lucon® CP-6052 is a Polycarbonate + ABS (PC+ABS) material filled with carbon nano. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Lucon® CP-6052 are:

ESD Protection

Impact Resistant

Typical applications include:

Electrical/Electronic Applications

Housings

Wire & Cable

General Information			
Filler / Reinforcement	Carbon Nano		
Features	ESD Protection		
	Good Impact Resistance		
Uses	Electrical/Electronic Applications		
	Housings		
	Telecommunications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	63.7	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	> 10	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	2940	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	98.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	44	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	117	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+7	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	

Drying Time	5.0 to 7.0	hr
Rear Temperature	280 to 310	°C
Middle Temperature	270 to 310	°C
Front Temperature	270 to 310	°C
Nozzle Temperature	270 to 310	°C
Processing (Melt) Temp	270 to 310	°C
Mold Temperature	60.0 to 80.0	°C
Back Pressure	0.00 to 1.96	MPa
Screw Speed	40 to 60	rpm

NOTE

- | | |
|----|------------|
| 1. | 5.0 mm/min |
| 2. | 5.0 mm/min |
| 3. | 15 mm/min |
| 4. | 15 mm/min |

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