

Lucon® PO6063

Polyphenylene Ether + PS

LG Chem Ltd.

Message:

Lucon® PO-6063 is a Polyphenylene Ether + PS (PPE+PS) material filled with carbon fiber, carbon nano and glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Lucon® PO-6063 are:

ESD Protection

High Strength

Warp Resistant

Typical application of Lucon® PO-6063: Electrical/Electronic Applications

General Information			
Filler / Reinforcement	Carbon Fiber		
	Carbon Nano		
	Glass Fiber		
Features	ESD Protection		
	High Strength		
	Low Warpage		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/10.0 kg)	37	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	98.1	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	2.5	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	9510	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	142	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	131	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+6	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 110	°C	
Drying Time	4.0 to 5.0	hr	

Rear Temperature	270 to 290	°C
Middle Temperature	280 to 300	°C
Front Temperature	280 to 310	°C
Nozzle Temperature	280 to 300	°C
Processing (Melt) Temp	280 to 300	°C
Mold Temperature	90.0 to 120	°C
Back Pressure	0.00 to 0.981	MPa
Screw Speed	40 to 60	rpm

NOTE

- | | |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 15 mm/min |
| 4. | 15 mm/min |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

