

Lucon® PS6080EX

Acrylonitrile Butadiene Styrene

LG Chem Ltd.

Message:

Lucon®PS-6080EX is an acrylonitrile butadiene styrene (ABS) material, which contains carbon nano-filler. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

Lucon®The main features of the PS-6080EX are:

flame retardant/rated flame

Conductivity

chemical resistance

Heat resistance

Typical application areas include:

House

Electrical/electronic applications

General Information			
Filler / Reinforcement	Carbon nano filler		
Features	Heat conduction		
	Good chemical resistance		
	Heat resistance, high		
Uses	Electric Motor Housings		
	Electrical/Electronic Applications		
	Shell		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.95	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 - 1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	73.5	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	< 5.0	%	ASTM D638
Flexural Modulus ³ (6.40 mm)	12900	MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	127	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	20	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	250	°C	ASTM D648
Peak Melting Temperature	280	°C	ASTM D3418
Thermal Conductivity ⁵	1.7	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093

Volume Resistivity (23°C)	1.0E+18	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-0		UL 94
1.60 mm	V-0		UL 94
2.50 mm	V-0		UL 94
3.20 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120 - 140	°C	
Drying Time	3.0 - 5.0	hr	
Rear Temperature	280 - 310	°C	
Middle Temperature	310 - 320	°C	
Front Temperature	320 - 325	°C	
Nozzle Temperature	310 - 330	°C	
Processing (Melt) Temp	330	°C	
Mold Temperature	130 - 150	°C	
Back Pressure	0.981 - 3.92	MPa	
Screw Speed	40 - 60	rpm	

Injection instructions

Minimum Moisture Content: 0.01%

NOTE

1. 5.0 mm/min
2. 5.0 mm/min
3. 1.0 mm/min
4. 1.0 mm/min
5. Laser Flash Method

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