

LG PS 460AF

High Impact Polystyrene

LG Chem Ltd.

Message:

LG PS 460AF is a High Impact Polystyrene material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of LG PS 460AF are:

Flame Rated

Flame Retardant

Typical application of LG PS 460AF: Electrical/Electronic Applications

General Information			
UL YellowCard	E67171-482123	E248280-100040662	
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	14	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	93		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	23.0	MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Yield, 3.20 mm	> 5.0	%	
Break, 3.20 mm	60	%	
Flexural Modulus ³ (3.20 mm)	2160	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	37.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm	39	J/m	
-30°C, 6.40 mm	39	J/m	
23°C, 3.20 mm	88	J/m	
23°C, 6.40 mm	69	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	84.0	°C	
1.8 MPa, Unannealed, 6.40 mm	78.0	°C	
Vicat Softening Temperature	84.0	°C	ASTM D1525 ⁵

RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	
1.60 mm	V-0		
3.20 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 70.0	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.010	%	
Rear Temperature	180 to 200	°C	
Middle Temperature	190 to 200	°C	
Front Temperature	200 to 210	°C	
Nozzle Temperature	200 to 230	°C	
Processing (Melt) Temp	200 to 230	°C	
Mold Temperature	40.0 to 60.0	°C	
Back Pressure	29.4 to 58.8	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	15 mm/min		
4.	15 mm/min		
5.	Rate A (50°C/h), Loading 2 (50 N)		

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