

LG PS 25SP(I)

General Purpose Polystyrene

LG Chem Ltd.

Message:

LG PS 25SP(I) is a general-purpose polystyrene material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is injection molding.

The main features of LG PS 25SP(I) are:

flame retardant/rated flame

Heat resistance

Transparency

Typical application areas include:

sheet

Movie

container

General Information			
UL YellowCard	E67171-248672		
Features	Heat resistance, high Definition, high		
Uses	Films Sheet Food container		
Appearance	Clear/transparent		
Processing Method	Injection molding		
Multi-Point Data	Specific Heat vs. Temperature (ISO 11403-2) Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	4.0	g/10 min	ASTM D1238
220°C/10.0 kg	47	g/10 min	ASTM D1238
230°C/3.8 kg	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm)	2880	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	49.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	6.0	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	3240	MPa	ASTM D790

Flexural Strength ⁵ (Yield, 3.20 mm)	96.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 6.40 mm	9.8	J/m	ASTM D256
23°C, 6.40 mm	9.8	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	92.0	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	86.0	°C	ASTM D648
Vicat Softening Temperature	93.0	°C	ASTM D1525 ⁶
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm	HB		UL 94
3.20 mm	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	170 - 190	°C	
Middle Temperature	180 - 200	°C	
Front Temperature	190 - 210	°C	
Nozzle Temperature	190 - 220	°C	
Processing (Melt) Temp	190 - 220	°C	
Mold Temperature	40.0 - 70.0	°C	
Back Pressure	29.4 - 58.8	MPa	
Screw Speed	30 - 60	rpm	
Injection instructions			
Minimum Moisture Content: 0.01%			
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		
6.	速率 A (50°C/h), 载荷2 (50N)		

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