

LG PS 15NFI

General Purpose Polystyrene

LG Chem Ltd.

Message:

Description

High Transparency, Heat Resistance

Application

Food Container, Merchandise, Artificial Woods, Refrigerator Vegetable Box, PSP, Sheet, Film, etc.

General Information			
Additive	Lubricant		
	Mold Release		
Features	High Clarity		
	High Cling		
	Medium Heat Resistance		
Uses	Electrical/Electronic Applications		
	Film		
	Food Containers		
	Kitchenware		
	Sheet		
	Simulated Wood Parts		
Appearance	Clear/Transparent		
Forms	Pellets		
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	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	10	g/10 min	
220°C/10.0 kg	120	g/10 min	
230°C/3.8 kg	28	g/10 min	
Molding Shrinkage - Flow (3.20 mm)	0.40 to 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)	2850	MPa	ASTM D638

Tensile Strength ² (Yield, 3.20 mm)	46.1	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	3260	MPa	ASTM D790
Flexural Strength ⁵ (3.20 mm)	84.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 6.40 mm	9.8	J/m	
23°C, 6.40 mm	9.8	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	93.0	°C	
1.8 MPa, Unannealed, 6.40 mm	87.0	°C	
Vicat Softening Temperature	95.0	°C	ASTM D1525 ⁶
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.010	%	
Rear Temperature	170 to 190	°C	
Middle Temperature	180 to 200	°C	
Front Temperature	190 to 210	°C	
Nozzle Temperature	190 to 220	°C	
Processing (Melt) Temp	190 to 220	°C	
Mold Temperature	40.0 to 70.0	°C	
Back Pressure	29.4 to 58.8	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	15 mm/min		
5.	15 mm/min		
6.	Rate A (50°C/h), Loading 2 (50 N)		

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