

LG PS 20HR(E)

High Impact Polystyrene

LG Chem Ltd.

Message:

LG PS 20HR(E) is a high impact 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 20HR(E) are:

- flame retardant/rated flame
- Heat resistance
- Transparency

Typical application areas include:

- Electrical/electronic applications
- application of coating

General Information	
UL YellowCard	E67171-248671
Features	Heat resistance, high
	Definition, high
Uses	Electrical/Electronic Applications
	Coating application
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	6.0	g/10 min	ASTM D1238
220°C/10.0 kg	73	g/10 min	ASTM D1238
230°C/3.8 kg	17	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)	2860	MPa	ASTM D638
Tensile Strength ² (Yield, 3.20 mm)	47.1	MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	4.0	%	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	3240	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 3.20 mm)	94.1	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	93.0	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	86.0	°C	ASTM D648
Vicat Softening Temperature	94.0	°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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