LG PS 65IHE

High Impact Polystyrene

LG Chem Ltd.

Message:

LG PS 65IHE is a high impact polystyrene material. This product is available in North America, Latin America, Europe or Asia Pacific. The processing method is extrusion.
The main features of LG PS 65IHE are:
flame retardant/rated flame
ROHS certification
Impact modification
Typical application areas include:
bag/lining
disc/rack

General Information			
Additive	Impact modifier		
Features	Impact modification General		
Uses	Lining General Bracket tray		
RoHS Compliance	RoHS compliance		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.03	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	3.0	g/10 min	ASTM D1238
220°C/10.0 kg	37	g/10 min	ASTM D1238
230°C/3.8 kg	8.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (3.20 mm)	1790	MPa	ASTM D638
Tensile Strength [2] (Yield, 3.20 mm)	27.5	MPa	ASTM D638
Tensile Elongation [3]			ASTM D638
Yield, 3.20mm	6.0	%	ASTM D638
Fracture, 3.20mm	57	%	ASTM D638
Flexural Modulus [4] (3.20 mm)	2110	MPa	ASTM D790
Flexural Strength [5] (Yield)	47.1	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256

-30°C, 3.20 mm	69	J/m	ASTM D256
-30°C, 6.40 mm	59	J/m	ASTM D256
23°C, 3.20 mm	130	J/m	ASTM D256
23°C, 6.40 mm	88	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	83.0	°C	ASTM D648
Vicat Softening Temperature	92.0	°C	ASTM D1525 [6]
RTI Elec			UL 746
1.50 mm	50.0	°C	UL 746
3.00 mm	50.0	°C	UL 746
6.00 mm	50.0	°C	UL 746
RTI Imp			UL 746
1.50 mm	50.0	°C	UL 746
3.00 mm	50.0	°C	UL 746
6.00 mm	50.0	°C	UL 746
RTI			UL 746
1.50 mm	50.0	°C	UL 746
3.00 mm	50.0	°C	UL 746
6.00 mm	50.0	°C	UL 746
Electrical	**Nominal Value**		**Test Method**
Comparative Tracking Index (CTI)	PLC 1		UL 746
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 0		UL 746
3.00 mm	PLC 0		UL 746
6.00 mm	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 0		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		UL 746
3.00 mm	PLC 3		UL 746
6.00 mm	PLC 2		UL 746
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
1.59 mm	HB		UL 94
3.18 mm	HB		UL 94
6.00 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)

Recommended distributors for this material

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