

Starex NH-1907

High Impact Polystyrene

SAMSUNG SDI CO., LTD.

Message:

Starex NH-1907 is a High Impact Polystyrene product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Characteristics include:
Flame Rated
RoHS Compliant

General Information			
UL YellowCard	E115797-100767592		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	42	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	58.0	MPa	ASTM D638
Yield	58.0	MPa	ISO 527-2/5
Tensile Elongation ² (Break)	15	%	ASTM D638
Flexural Modulus			
-- ³	2600	MPa	ASTM D790
-- ⁴	2590	MPa	ISO 178
Flexural Strength			
-- ⁵	79.0	MPa	ASTM D790
-- ⁶	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18 mm	88	J/m	ASTM D256
23°C ⁷	89	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	90.0	°C	ISO 75-2/B
0.45 MPa, Annealed	94.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	84.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	78.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	87.0	°C	ISO 75-2/A

Vicat Softening Temperature			
--	96.0	°C	ISO 306/B50
--	100	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating (2.50 mm)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	2.0 to 4.0	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	230	°C	
Middle Temperature	240	°C	
Front Temperature	250 to 260	°C	
Nozzle Temperature	260	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	49.0 to 245	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	2.8 mm/min		
4.	2.0 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	Thickness: 4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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