

Infino HR-8070

Polyphenylene Ether

SAMSUNG SDI CO., LTD.

Message:

Infino HR-8070 is a Polyphenylene Ether (PPE) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Primary characteristic: flame rated.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (280°C/10.0 kg)	4.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.30 to 0.40	%	
Across Flow : 3.20 mm	0.40 to 0.50	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2100	MPa	ASTM D638
--	2100	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	64.0	MPa	ASTM D638
Yield	65.0	MPa	ISO 527-2/5
Break ³	62.0	MPa	ASTM D638
Break	63.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	30	%	ASTM D638
Break	30	%	ISO 527-2/5
Flexural Modulus			
-- ⁵	2100	MPa	ASTM D790
-- ⁶	2150	MPa	ISO 178
Flexural Strength			
-- ⁷	90.0	MPa	ASTM D790
-- ⁸	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	98	J/m	ASTM D256
23°C, 6.35 mm	98	J/m	ASTM D256
23°C ¹⁰	10	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	157	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	157	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	150	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	150	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating (1.50 to 3.00 mm)	HB		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	265 to 275	°C	
Middle Temperature	285 to 290	°C	
Front Temperature	300 to 305	°C	
Nozzle Temperature	310	°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.	50 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	2.8 mm/min		
8.	2.0 mm/min		
9.	Thickness: 4 mm		
10.	Thickness: 4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

