

Infino NH-1037

Polycarbonate + ABS
SAMSUNG SDI CO., LTD.

Message:

Infino NH-1037 is a Polycarbonate + ABS (PC+ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Primary characteristic: flame rated.

General Information			
UL YellowCard		E115797-538439	
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.19	g/cm ³	ASTM D792
--	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	19	g/10 min	ASTM D1238
250°C/10.0 kg	20	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2400	MPa	ASTM D638
--	2400	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	66.0	MPa	ASTM D638
Yield	61.0	MPa	ISO 527-2/50
Break ³	71.0	MPa	ASTM D638
Break	55.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	110	%	ASTM D638
Break	28	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2600	MPa	ASTM D790
-- ⁶	2500	MPa	ISO 178
Flexural Strength			
-- ⁷	98.0	MPa	ASTM D790
-- ⁸	92.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	36	kJ/m ²	ISO 179/1eA
Notched Izod Impact			

23°C, 3.18 mm	590	J/m	ASTM D256
23°C, 6.35 mm	190	J/m	ASTM D256
23°C ¹⁰	32	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	108	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	105	°C	ISO 75-2/B
0.45 MPa, Annealed	106	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	100	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	93.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	100	°C	ISO 75-2/A
Vicat Softening Temperature			
--	111	°C	ISO 306/B50
--	114	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	220 to 230	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	260 to 270	°C	
Nozzle Temperature	270	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Pressure	98.1	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 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		

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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

