

Infino EF-1032

Polycarbonate + ABS
SAMSUNG SDI CO., LTD.

Message:
Extrusion resin of non-halogen flame-retardant characteristic

General Information			
Features	Flame Retardant		
	Halogen Free		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	20	g/10 min	ASTM D1238, 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	2300	MPa	ASTM D638
--	2400	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	64.0	MPa	ASTM D638
Yield	65.0	MPa	ISO 527-2/50
Break ³	69.0	MPa	ASTM D638
Break	55.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	120	%	ASTM D638
Break	73	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2400	MPa	ASTM D790
-- ⁶	2400	MPa	ISO 178
Flexural Strength			
-- ⁷	93.0	MPa	ASTM D790
-- ⁸	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	62	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	830	J/m	ASTM D256
23°C, 6.35 mm	420	J/m	ASTM D256

23°C ¹⁰	53	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	103	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	101	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	95.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	92.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	107	°C	ISO 306/B50
--	129	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
2.00 mm	5VB		
3.00 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature			
--	90.0	°C	
Desiccant Dryer	90.0	°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	230 to 240	°C	
Front Temperature	240 to 250	°C	
Nozzle Temperature	250	°C	
Mold Temperature	50.0 to 80.0	°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		
10.	Thickness: 4 mm		

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