Infino WP-1041

Polycarbonate + ABS

SAMSUNG SDI CO., LTD.

Message:

High flow PC/ABS material that can be used for automobile R/G door handle

General Information	
UL YellowCard	E115797-100388949
Features	High Flow
Uses	Automotive Applications
	Automotive Exterior Parts

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
250°C/10.0 kg	35	g/10 min	
250°C/2.16 kg	4.0	g/10 min	
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.50 to 0.60	%	
Across Flow : 3.20 mm	0.50 to 0.60	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	103		ASTM D785, ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	1900	MPa	ASTM D638
--	1870	MPa	ISO 527-2/50
Tensile Strength			
Yield [2]	48.0	MPa	ASTM D638
Yield	47.0	MPa	ISO 527-2/50
Break [3]	39.0	MPa	ASTM D638
Break	22.0	MPa	ISO 527-2/50
Tensile Elongation			
Break [4]	25	%	ASTM D638
Break	22	%	ISO 527-2/50
Flexural Modulus			
-- [5]	1900	MPa	ASTM D790
-- [6]	2000	MPa	ISO 178
Flexural Strength			
-- [7]	66.0	MPa	ASTM D790
-- [8]	73.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength [9] (23°C)	47	kJ/m²	ISO 179/1eA
Notched Izod Impact			
-30°C, 3.18 mm	440	J/m	ASTM D256
-30°C, 6.35 mm	270	J/m	ASTM D256
23°C, 3.18 mm	540	J/m	ASTM D256
23°C, 6.35 mm	390	J/m	ASTM D256
23°C [10]	44	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength [11] (23°C)	35	kJ/m²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	120	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	112	°C	ISO 75-2/B
0.45 MPa, Annealed	119	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	99.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	93.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	107	°C	ISO 75-2/A
Vicat Softening Temperature	109	°C	ISO 306/B50
CLTE - Flow (40 to 100°C)	8.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
--	85.0	°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	< 0.10	%	
Rear Temperature	180 to 190	°C	
Middle Temperature	200	°C	
Front Temperature	200 to 210	°C	
Nozzle Temperature	210	°C	
Mold Temperature	40.0 to 70.0	°C	
Injection Pressure	98.1	MPa	
Back Pressure	0.981 to 2.45	MPa	
Screw Speed	60 to 90	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
11.	Thickness: 4 mm

Recommended distributors for this material

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