OSTERMAN

Infino NH-1017SG

LOTTE ADVANCED MATERIALS CO., LTD. - Polycarbonate + ABS

Thursday, September 29, 2016

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant		
Uses	• Electrical/Electronic Applications		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.20		ASTM D792
Density (Natural)	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	48	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	48	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	2.9E-3 to 3.6E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow (0.126 in)	3.1E-3 to 3.8E-3	in/in	ASTM D955
Molding Shrinkage			ISO 2577
Across Flow : 0.126 in	0.31 to 0.38	%	
Flow : 0.126 in	0.29 to 0.36	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [2]	363000	psi	ASTM D638
Tensile Modulus	377000	psi	ISO 527-2/50
Tensile Strength [2] (Yield)	9280	psi	ASTM D638
Tensile Stress (Yield)	9860	psi	ISO 527-2/50
Tensile Strength [2] (Break)	7540	psi	ASTM D638
Tensile Stress (Break)	7250	psi	ISO 527-2/50
Tensile Elongation [2] (Break)	67	%	ASTM D638
Tensile Strain (Break)	14	%	ISO 527-2/50
Flexural Modulus [3]	392000	psi	ASTM D790
Flexural Modulus [4]	421000	psi	ISO 178
Flexural Strength [3]	13600	psi	ASTM D790
Flexural Stress [4]	14500	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [5] (73°F)	2.9	ft·lb/in²	ISO 179/1eA
Notched Izod Impact			ASTM D256
73°F, 0.125 in	8.2	ft·lb/in	
73°F, 0.250 in	2.6	ft·lb/in	
Notched Izod Impact Strength [5] (73°F)	3.8	ft·lb/in²	ISO 180/1A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	123		ISO 2039-2

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi, Unannealed, 0.157 in	201	°F	
Heat Deflection Temperature			ISO 75-2/B
66 psi, Annealed, 0.157 in	207	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.252 in	183	°F	
Heat Deflection Temperature			ISO 75-2/A
264 psi, Unannealed, 0.157 in	183	°F	
Heat Deflection Temperature			ISO 75-2/A
264 psi, Annealed, 0.157 in	196	°F	
Vicat Softening Temperature			
--	212	°F	ISO 306/B50
--	217	°F	ISO 306/B120

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 in/min

[3] 0.11 in/min

[4] 0.079 in/min

[5] Thickness: 4mm