



OSTERMAN

Infino NE-1030

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

Wednesday, September 28, 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)	1.18		ASTM D792
Density (Natural)	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	53	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	53	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	3.2E-3 to 3.9E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow (0.126 in)	3.3E-3 to 4.0E-3	in/in	ASTM D955
Molding Shrinkage			ISO 2577
Across Flow : 0.126 in	0.33 to 0.40	%	
Flow : 0.126 in	0.32 to 0.39	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	377000	psi	ASTM D638
Tensile Modulus	363000	psi	ISO 527-2/50
Tensile Strength ² (Yield)	9140	psi	ASTM D638
Tensile Stress (Yield)	8700	psi	ISO 527-2/50
Tensile Strength ² (Break)	7830	psi	ASTM D638
Tensile Stress (Break)	6670	psi	ISO 527-2/50
Tensile Elongation ² (Break)	59	%	ASTM D638
Tensile Strain (Break)	35	%	ISO 527-2/50
Flexural Modulus ³	363000	psi	ASTM D790
Flexural Modulus ⁴	363000	psi	ISO 178
Flexural Strength ³	12600	psi	ASTM D790
Flexural Stress ⁴	13100	psi	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (73°F)	8.1	ft-lb/in ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
73°F, 0.125 in	9.2	ft-lb/in	
73°F, 0.250 in	2.2	ft-lb/in	
Notched Izod Impact Strength ⁵ (73°F)	7.6	ft-lb/in ²	ISO 180/1A

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ISO 2039-2

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Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature 66 psi, Unannealed, 0.157 in	194	°F	ISO 75-2/B
Heat Deflection Temperature 66 psi, Annealed, 0.157 in	199	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed, 0.252 in	181	°F	ASTM D648
Heat Deflection Temperature 264 psi, Unannealed, 0.157 in	171	°F	ISO 75-2/A
Heat Deflection Temperature 264 psi, Annealed, 0.157 in	185	°F	ISO 75-2/A
Vicat Softening Temperature --	199	°F	ISO 306/B50
--	203	°F	ISO 306/B120

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

Processing Information

Injection	Nominal Value	Unit
Drying Temperature --	176	°F
Desiccant Dryer	176	°F
Drying Time --	4.0 to 6.0	hr
Desiccant Dryer	2.0 to 4.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	428 to 446	°F
Middle Temperature	464 to 482	°F
Front Temperature	500 to 518	°F
Nozzle Temperature	518	°F
Mold Temperature	122 to 158	°F
Injection Pressure	14200	psi
Back Pressure	71.1 to 284	psi
Screw Speed	50 to 150	rpm

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