



OSTERMAN

Infino NH-1021

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	• Computer Components		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.20		ASTM D792
Density (Natural)	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	28	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	28	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	9570	psi	ASTM D638
Tensile Stress (Yield)	9720	psi	ISO 527-2/50
Flexural Modulus ³	377000	psi	ASTM D790
Flexural Modulus ⁴	363000	psi	ISO 178
Flexural Strength ³	13500	psi	ASTM D790
Flexural Stress ⁴	13600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (73°F)	9.5	ft-lb/in ²	ISO 179/1eA
Notched Izod Impact (73°F, 0.125 in)	5.4	ft-lb/in	ASTM D256
Notched Izod Impact Strength ⁵ (73°F)	14	ft-lb/in ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, 0.252 in	207	°F	ASTM D648
Heat Deflection Temperature 66 psi, Unannealed, 0.157 in	205	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed, 0.252 in	192	°F	ASTM D648
Heat Deflection Temperature 264 psi, Unannealed, 0.157 in	185	°F	ISO 75-2/A
Vicat Softening Temperature			
--	212	°F	ISO 306/B50
--	219	°F	ISO 306/B120

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Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.04 in		V-1	
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