

INFINO NH-1037

(PC+ABS)

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	19	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	19	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0055	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	61	MPa	ISO 527
Stress at break	55	MPa	ISO 527
Strain at break	28	%	ISO 527
Flexural modulus, 23°C	2500	MPa	ISO 178
Flexural strength	92	MPa	ISO 178
Charpy notched impact strength, +23°C	36	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	32	kJ/m ²	ISO 180/1A
Rockwell hardness	R 120	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2400	MPa	ASTM D 638
Tensile Strength at Yield	66	MPa	ASTM D 638
Tensile Strength at Break	71	MPa	ASTM D 638
Elongation at Break	109	%	ASTM D 638
Flexural Modulus	2600	MPa	ASTM D 790
Flexural Strength	98	MPa	ASTM D 790
Rockwell Hardness	R 120	-	ASTM D 785
Izod Impact notched, 1/8 in	590	J/m	ASTM D 256
Izod Impact notched, 1/4 in	190	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	93	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	105	°C	ISO 75-1/-2
Vicat softening temperature, B	110	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	3.0	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.5	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	108	°C	ASTM D 648
DTUL @ 264 psi	100	°C	ASTM D 648
Other properties			
Density	1190	kg/m ³	ISO 1183
Density	1190	kg/m ³	ASTM D 792

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Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.04	%	-
Melt temperature	280	°C	-
Mold temperature	70 - 90	°C	-
Zone 1	230 - 240	°C	-
Zone 2	250 - 270	°C	-
Zone 3	270 - 280	°C	-
Nozzle temperature	280	°C	-
Screw speed	50 - 100	rpm	-
Injection pressure	98	MPa	-
Back pressure	0.5 - 2.9	MPa	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Natural Color

Applications

Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific