

INFINO NH-1024

(PC+ABS)

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	39	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	39	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0037	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0042	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2200	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Stress at break	50	MPa	ISO 527
Strain at break	52	%	ISO 527
Flexural modulus, 23°C	2310	MPa	ISO 178
Flexural strength	88	MPa	ISO 178
Charpy notched impact strength, +23°C	24	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	18	kJ/m ²	ISO 180/1A
Rockwell hardness	R 118	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2100	MPa	ASTM D 638
Tensile Strength at Yield	57	MPa	ASTM D 638
Tensile Strength at Break	57	MPa	ASTM D 638
Elongation at Break	71	%	ASTM D 638
Flexural Modulus	2400	MPa	ASTM D 790
Flexural Strength	86	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	600	J/m	ASTM D 256
Izod Impact notched, 1/4 in	170	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	90	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	93	°C	ISO 75-1/-2
Vicat softening temperature, B	105	°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	0.8	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	0.75	mm	-
DTUL @ 66 psi	93	°C	ASTM D 648
DTUL @ 264 psi	90	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1200	kg/m ³	ISO 1183
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 6	h	-

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Processing humidity	≤0.05	%	-
Melt temperature	280	°C	-
Mold temperature	40 - 120	°C	-
Zone 1	220 - 230	°C	-
Zone 2	240 - 280	°C	-
Zone 3	260 - 300	°C	-
Nozzle temperature	280	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	98	MPa	-
Back pressure	0.5 - 2	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets, Natural Color