

INFINO LX-1080

(PC+ABS)

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	48	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	48	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955
Mechanical properties			
ISO Data	Value	Unit	Test Standard
Tensile Modulus	2400	MPa	ISO 527
Yield stress	64	MPa	ISO 527
Stress at break	49	MPa	ISO 527
Strain at break	14	%	ISO 527
Flexural modulus, 23°C	2350	MPa	ISO 178
Flexural strength	88	MPa	ISO 178
Charpy notched impact strength, +23°C	8	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	15	kJ/m ²	ISO 180/1A
Rockwell hardness	R 118	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2500	MPa	ASTM D 638
Tensile Strength at Yield	64	MPa	ASTM D 638
Tensile Strength at Break	49	MPa	ASTM D 638
Elongation at Break	25	%	ASTM D 638
Flexural Modulus	2400	MPa	ASTM D 790
Flexural Strength	88	MPa	ASTM D 790
Rockwell Hardness	R 118	-	ASTM D 785
Izod Impact notched, 1/8 in	150	J/m	ASTM D 256
Izod Impact notched, 1/4 in	110	J/m	ASTM D 256
Thermal properties			
ISO Data	Value	Unit	Test Standard
Temp. of deflection under load, 1.80 MPa	84	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	94	°C	ISO 75-1/-2
Vicat softening temperature, B	97	°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-1	class	IEC 60695-11-10
Thickness tested	1.2	mm	-
ASTM Data			
UL 94 Flame rating	V-1	-	UL 94
Thickness tested	1.2	mm	-
DTUL @ 66 psi	94	°C	ASTM D 648
DTUL @ 264 psi	84	°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	4 - 6	h	-

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Processing humidity	≤0.05	%	-
Melt temperature	260	°C	-
Mold temperature	50 - 70	°C	-
Zone 1	220 - 230	°C	-
Zone 2	240 - 250	°C	-
Zone 3	260 - 270	°C	-
Nozzle temperature	270	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	98	MPa	-
Back pressure	0.5 - 2	MPa	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Natural Color

Applications

IT / Business Machine

Regional Availability

North America, Europe, Asia Pacific