

Infino NH-1017			
(PC+ABS)		Lotte Chemical Corporation	
Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index	55	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.0025	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.003	mm/mm	ASTM D 955
Density	1170	kg/m ³	ASTM D 792
Rheological properties			
Value	Unit	Test Standard	
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.3	%	ISO 294-4, 2577
Melt flow index, MFI	55	g/10min	ISO 1133
MFI temperature	220	°C	-
MFI load	10	kg	-
Mechanical properties			
Value	Unit	Test Standard	
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	59	MPa	ISO 527
Stress at break	44	MPa	ISO 527
Strain at break	10	%	ISO 527
Charpy notched impact strength, +23°C	14	kJ/m ²	ISO 179/1eA
Flexural modulus, 23°C	2350	MPa	ISO 178
Flexural strength	83	MPa	ISO 178
Izod Impact notched, 23°C	13	kJ/m ²	ISO 180/1A
Rockwell hardness	R 113	-	ISO 2039-2
ASTM Data			
Tensile Modulus	2400	MPa	ASTM D 638
Tensile Strength at Yield	53	MPa	ASTM D 638
Tensile Strength at Break	43	MPa	ASTM D 638
Elongation at Break	8.8	%	ASTM D 638
Flexural Modulus	2100	MPa	ASTM D 790
Flexural Strength	74	MPa	ASTM D 790
Rockwell Hardness	R 113	-	ASTM D 785
Izod Impact notched, 1/8 in	440	J/m	ASTM D 256
Thermal properties			
Value	Unit	Test Standard	
ISO Data			
Temp. of deflection under load, 1.80 MPa	75	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	85	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	91	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	2.0	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.0	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	2	mm	-
DTUL @ 66 psi	87	°C	ASTM D 648

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DTUL @ 264 psi	80	°C	ASTM D 648
Other properties			
	Value	Unit	Test Standard
ISO Data			
Density	1170	kg/m ³	ISO 1183
Processing Recommendation Injection Molding			
	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 80	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.05	%	-
Melt temperature	260 - 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 - 270	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	98 - 98	MPa	-
Back pressure	0.5 - 2	MPa	-
Characteristics			
Processing		Applications	
Injection Molding		Electrical and Electrical	
Delivery form			
Pellets, Natural Color			