

<b>Infino NH-1037</b>			
<b>(PC+ABS)</b>		Lotte Chemical Corporation	
<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index	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
Density	1190	kg/m <sup>3</sup>	ASTM D 792
<b>Rheological properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
<b>ISO Data</b>			
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
Melt flow index, MFI	19	g/10min	ISO 1133
MFI temperature	220	°C	-
MFI load	10	kg	-
<b>Mechanical properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
<b>ISO Data</b>			
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
Charpy notched impact strength, +23°C	36	kJ/m <sup>2</sup>	ISO 179/1eA
Flexural modulus, 23°C	2500	MPa	ISO 178
Flexural strength	92	MPa	ISO 178
Izod Impact notched, 23°C	32	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R 120	-	ISO 2039-2
<b>ASTM Data</b>			
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
<b>Thermal properties</b>			
<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>	
<b>ISO Data</b>			
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, 50°C/h 50N	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	-
<b>ASTM Data</b>			

<b>Infino NH-1037 (PC+ABS)</b>		Lotte Chemical Corporation	
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
<b>Other properties</b>			
	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Density	1190	kg/m <sup>3</sup>	ISO 1183
<b>Processing Recommendation Injection Molding</b>			
	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	80 - 80	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.04	%	-
Melt temperature	280 - 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 - 280	°C	-
Screw speed	50 - 100	rpm	-
Injection pressure	98 - 98	MPa	-
Back pressure	0.5 - 2.9	MPa	-
<b>Characteristics</b>			
<b>Processing</b>		<b>Applications</b>	
Injection Molding		Electrical and Electrical	
<b>Delivery form</b>			
Pellets, Natural Color			