

INFINO NH-1013

(PC+ABS)

Lotte Chemical Corporation

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|--------|---------|---------------|
| ISO Data | | | |
| Melt flow index, MFI | 33 | g/10min | ISO 1133 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 33 | 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 | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Yield stress | 60 | MPa | ISO 527 |
| Stress at break | 50 | MPa | ISO 527 |
| Strain at break | 60 | % | ISO 527 |
| Flexural modulus, 23°C | 2650 | MPa | ISO 178 |
| Flexural strength | 90 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 30 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C | 30 | kJ/m ² | ISO 180/1A |
| Rockwell hardness | R 118 | - | ISO 2039-2 |
| ASTM Data | | | |
| Tensile Strength at Yield | 62 | MPa | ASTM D 638 |
| Tensile Strength at Break | 59 | MPa | ASTM D 638 |
| Elongation at Break | 50 | % | ASTM D 638 |
| Flexural Modulus | 2500 | MPa | ASTM D 790 |
| Flexural Strength | 90 | MPa | ASTM D 790 |
| Rockwell Hardness | R 118 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 590 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|--|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 82 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 100 | °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 | - |
| Burning behav. 5V at thickness h | 5VB | class | IEC 60695-11-20 |
| Thickness tested | 2.0 | mm | - |
| ASTM Data | | | |
| UL 94 Flame rating | V-1 | - | UL 94 |
| Thickness tested | 1.2 | mm | - |
| DTUL @ 264 psi | 88 | °C | ASTM D 648 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1180 | kg/m ³ | ISO 1183 |
| Density | 1180 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 80 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Processing humidity | ≤0.05 | % | - |
| Melt temperature | 260 | °C | - |
| Mold temperature | 50 - 70 | °C | - |
| Zone 1 | 230 - 250 | °C | - |
| Zone 2 | 240 - 260 | °C | - |

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| | | | |
|--------------------|------------------|-----|---|
| Zone 3 | 250 - 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

Applications

Electrical and Electronical

Delivery form

Pellets, Natural Color

Regional Availability

North America, Europe, Asia Pacific