

Product Texts

LNP THERMOCOMP DF00A1P compound is based on Polycarbonate (PC) resin containing 50% glass fiber. Added features of this grade include: High Modulus, Low Warp, Non-Brominated & Non-Chlorinated Flame Retardant.

UL Yellow Card Link [E207780-101282786](https://www.ulprospector.com/207780-101282786)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|---------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 12 | cm ³ /10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 2.16 | kg | - |
| ASTM Data | | | |
| Melt Flow Index, MFI | 21 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 2.16 | kg | - |
| Mold Shrinkage, MD | 0.175 | mm/mm | ASTM D 955 |
| Mold Shrinkage, TD | 0.2 | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|------------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 17400 | MPa | ISO 527 |
| Stress at break | 126 | MPa | ISO 527 |
| Strain at break | 1.4 | % | ISO 527 |
| Flexural modulus | 14200 | MPa | ISO 178 |
| Flexural strength | 168 | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | 13 | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | 7 | kJ/m ² | ISO 180/1A |
| ASTM Data | | | |
| Tensile Modulus | 17000 | MPa | ASTM D 638 |
| Tensile Strength at Break | 170 | MPa | ASTM D 638 |
| Elongation at Break | 1.4 | % | ASTM D 638 |
| Flexural Modulus | 14470 | MPa | ASTM D 790 |
| Izod Impact notched, 1/8 in | 80 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | 181 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|------------------------------------------|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 96 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 104 | °C | ISO 75-1/-2 |
| Burning behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 0.8 | mm | - |
| ASTM Data | | | |
| DTUL @ 66 psi | 105 | °C | ASTM D 648 |
| DTUL @ 264 psi | 98 | °C | ASTM D 648 |

| Other properties | Value | Unit | Test Standard |
|------------------------|-------|-------------------|---------------|
| Water Absorption, 24hr | 0.3 | % | ASTM D 570 |
| Density | 1680 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature | 110 | °C | - |
| Pre-drying - Time | 3 - 6 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 285 - 310 | °C | - |
| Mold temperature | 80 - 110 | °C | - |
| Zone 1 | 260 - 280 | °C | - |
| Zone 2 | 270 - 290 | °C | - |
| Zone 3 | 280 - 300 | °C | - |
| Screw speed | 50 - 90 | rpm | - |

Back pressure

0.1 - 0.3

MPa

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Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific