

**Product Texts**

LNP THERMOCOMP D351RCC compound is based on recycled Polycarbonate (PC) resin containing 30% glass fiber. Added features of this grade include: High Modulus, Low Warpage, Good Ductility, Non-Brominated & Non-Chlorinated Flame Retardant. Post-Consumer Recycling (PCR) Polycarbonate content up to 40%.

UL Yellow Card Link [E207780-104051537](https://www.ul.com/yellow-card/E207780-104051537)

| Processing/Physical Characteristics | Value | Unit                   | Test Standard |
|-------------------------------------|-------|------------------------|---------------|
| <b>ISO Data</b>                     |       |                        |               |
| Melt volume-flow rate, MVR          | 31    | cm <sup>3</sup> /10min | ISO 1133      |
| Temperature                         | 300   | °C                     | -             |
| Load                                | 2.16  | kg                     | -             |
| <b>ASTM Data</b>                    |       |                        |               |
| Melt Flow Index, MFI                | 36    | g/10min                | ASTM D 1238   |
| Temperature                         | 300   | °C                     | -             |
| Load                                | 2.16  | kg                     | -             |
| Mold Shrinkage, MD                  | 0.2   | mm/mm                  | ASTM D 955    |
| Mold Shrinkage, TD                  | 0.2   | mm/mm                  | ASTM D 955    |

| Mechanical properties                    | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                          |       |                   |               |
| Tensile Modulus                          | 9400  | MPa               | ISO 527       |
| Stress at break                          | 127   | MPa               | ISO 527       |
| Strain at break                          | 2.7   | %                 | ISO 527       |
| Flexural modulus                         | 7810  | MPa               | ISO 178       |
| Flexural strength                        | 183   | MPa               | ISO 178       |
| Izod impact strength, +23°C, 4mm         | 31    | kJ/m <sup>2</sup> | ISO 180/1U    |
| Izod notched impact strength, +23°C, 4mm | 13    | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>ASTM Data</b>                         |       |                   |               |
| Tensile Modulus                          | 9210  | MPa               | ASTM D 638    |
| Tensile Strength at Break                | 130   | MPa               | ASTM D 638    |
| Elongation at Break                      | 2.4   | %                 | ASTM D 638    |
| Flexural Modulus                         | 8550  | MPa               | ASTM D 790    |
| Izod Impact notched, 1/8 in              | 130   | J/m               | ASTM D 256    |
| Izod Impact unnotched, 1/8 in            | 465   | J/m               | ASTM D 256    |

| Thermal properties                       | Value | Unit  | Test Standard   |
|--|-------|-------|-----------------|
| <b>ISO Data</b>                          |       |       |                 |
| Vicat softening temperature, B           | 122   | °C    | ISO 306         |
| Vicat softening temperature, 120°C/h 50N | 126   | °C    | ISO 306         |
| Burning behav. at thickness h            | V-0   | class | IEC 60695-11-10 |
| Thickness tested                         | 0.8   | mm    | -               |
| <b>ASTM Data</b>                         |       |       |                 |
| DTUL @ 66 psi                            | 118   | °C    | ASTM D 648      |
| DTUL @ 264 psi                           | 113   | °C    | ASTM D 648      |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1430  | kg/m <sup>3</sup> | 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

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant

**Certifications**

Recycled Resin Content

**Regional Availability**

North America, Europe, Asia Pacific