

LNPTTM THERMOCOMPTM COMPOUND DF004XXC

DESCRIPTION

LNP THERMOCOMP DF004XXC compound is based on Polycarbonate (PC) resin containing 20% glass fiber.

| GENERAL INFORMATION | |
|-----------------------|--|
| Features | High stiffness/Strength, No PFAS intentionally added |
| Fillers | Glass Fiber |
| Polymer Types | Polycarbonate (PC) |
| Processing Techniques | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|----------------------------|-----------------------------------|
| Building and Construction | Building Component |
| Consumer | Personal Accessory |
| Electrical and Electronics | Mobile Phone - Computer - Tablets |
| Industrial | Electrical |

TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|-----------------------------------|-------------------|--------------|
| MECHANICAL ⁽¹⁾ | | | |
| Tensile Stress, yield, 5 mm/min | 121 | MPa | ISO 527 |
| Tensile Strain, yield, 5 mm/min | 3.1 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 6800 | MPa | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 188 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 6100 | MPa | ISO 178 |
| IMPACT ⁽¹⁾ | | | |
| Izod Impact, unnotched 80*10*4 +23°C | 65 | kJ/m ² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 12 | kJ/m ² | ISO 180/1A |
| THERMAL ⁽¹⁾ | | | |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 143 | °C | ISO 75/Af |
| Relative Temp Index, Elec ⁽²⁾ | 80 | °C | UL 746B |
| Relative Temp Index, Mech w/impact ⁽²⁾ | 80 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact ⁽²⁾ | 80 | °C | UL 746B |
| PHYSICAL ⁽¹⁾ | | | |
| Density | 1.36 | g/cm ³ | ISO 1183 |
| FLAME CHARACTERISTICS ⁽²⁾ | | | |
| UL Yellow Card Link | E207780-10134385Z | - | - |
| UL Recognized, 94V-1 Flame Class Rating | ≥3 | mm | UL 94 |
| UL Recognized, 94V-2 Flame Class Rating | ≥1.5 | mm | UL 94 |
| INJECTION MOLDING ⁽³⁾ | | | |
| Drying Temperature | 120 | °C | |

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|-----------------------------|----------------|-------|--------------|
| Drying Time | 4 | Hrs | |
| Maximum Moisture Content | 0.02 | % | |
| Melt Temperature | 305 – 325 | °C | |
| Front - Zone 3 Temperature | 320 – 330 | °C | |
| Middle - Zone 2 Temperature | 310 – 320 | °C | |
| Rear - Zone 1 Temperature | 295 – 305 | °C | |
| Mold Temperature | 80 – 110 | °C | |
| Back Pressure | 0.2 – 0.3 | MPa | |
| Screw Speed | 30 – 60 | rpm | |

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.
- (3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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