# LNP™ THERMOCOMP™ COMPOUND RX10405H

RX10405H

## DESCRIPTION

LNP THERMOCOMP RX10405H is a compound based on Nylon 66 resin containing Carbon Fiber. Added feature of this material is: Healthcare.

## TYPICAL PROPERTY VALUES

Revision 20191213

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, brk, Type I, 5 mm/min | 276 | MPa | ASTM D 638 |
| Tensile Strain, brk, Type I, 5 mm/min | 1.6 | % | ASTM D 638 |
| Tensile Modulus, 5 mm/min | 31000 | MPa | ASTM D 638 |
| Flexural Stress, brk, 1.3 mm/min, 50 mm span | 386 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 24400 | MPa | ASTM D 790 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 101 | J/m | ASTM D 256 |
| THERMAL | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 256 | °C | ASTM D 648 |
| PHYSICAL | | | |
| Specific Gravity | 1.33 | - | ASTM D 792 |
| ELECTRICAL | | | |
| Surface Resistivity | 1.E+02 | Ohm | ASTM D 257 |
| INJECTION MOLDING | | | |
| Drying Temperature | 80 | °C | |
| Drying Time | 4 | hrs | |
| Maximum Moisture Content | 0.15 – 0.25 | % | |
| Melt Temperature | 280 – 305 | °C | |
| Front - Zone 3 Temperature | 295 – 305 | °C | |
| Middle - Zone 2 Temperature | 280 – 295 | °C | |
| Rear - Zone 1 Temperature | 265 – 275 | °C | |
| Mold Temperature | 95 – 110 | °C | |
| Back Pressure | 0.2 – 0.3 | MPa | |
| Screw Speed | 30 – 60 | rpm | |

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