# LNP™ THERMOCOMP™ Compound RF00CSXS

RF-100-12 HS
REGION ASIA

## DESCRIPTION

LNP THERMOCOMP RF00CSXS compound is based on Nylon 6/6 resin containing 60% glass fiber. Added features of this grade include: Heat Stabilized.

| GENERAL INFORMATION | |
|---|---|
| **Features** | Heat Stabilized, High stiffness/Strength, No PFAS intentionally added |
| **Fillers** | Glass Fiber (Total fluorine >50ppm only from inorganic fluorine) |
| **Polymer Types** | Polyamide 66 (Nylon 66) |
| **Processing Techniques** | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|---|---|
| Building and Construction | Building Component |
| Consumer | Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance |
| Electrical and Electronics | Mobile Phone - Computer - Tablets |
| Industrial | Electrical |

## TYPICAL PROPERTY VALUES

Revision 20260204

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL [1] | | | |
| **Tensile Stress, break** | 253 | MPa | ASTM D638 |
| **Tensile Strain, break** | 2.2 | % | ASTM D638 |
| **Tensile Modulus, 50 mm/min** | 21370 | MPa | ASTM D638 |
| **Flexural Stress** | 358 | MPa | ASTM D790 |
| **Flexural Modulus** | 19300 | MPa | ASTM D790 |
| **Tensile Stress, break** | 253 | MPa | ISO 527 |
| **Tensile Strain, break** | 2 | % | ISO 527 |
| **Tensile Modulus, 1 mm/min** | 20700 | MPa | ISO 527 |
| **Flexural Stress** | 375 | MPa | ISO 178 |
| **Flexural Modulus** | 20000 | MPa | ISO 178 |
| IMPACT [1] | | | |
| **Izod Impact, unnotched, 23°C** | 1228 | J/m | ASTM D4812 |
| **Izod Impact, notched, 23°C** | 160 | J/m | ASTM D256 |
| **Instrumented Dart Impact Energy @ peak, 23°C** | 10 | J | ASTM D3763 |
| **Izod Impact, unnotched 80*10*4 +23°C** | 76 | kJ/m² | ISO 180/1U |
| **Izod Impact, notched 80*10*4 +23°C** | 19 | kJ/m² | ISO 180/1A |
| THERMAL [1] | | | |
| **HDT, 0.45 MPa, 3.2 mm, unannealed** | 260 | °C | ASTM D648 |
| **HDT, 1.82 MPa, 3.2mm, unannealed** | 255 | °C | ASTM D648 |
| **CTE, -40°C to 40°C, flow** | 1.62E-05 | 1/°C | ASTM E831 |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| CTE, -40°C to 40°C, xflow | 3.78E-05 | 1/°C | ASTM E831 |
| CTE, -40°C to 40°C, flow | 1.6E-05 | 1/°C | ISO 11359-2 |
| CTE, -40°C to 40°C, xflow | 3.8E-05 | 1/°C | ISO 11359-2 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 258 | °C | ISO 75/Bf |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 254 | °C | ISO 75/Af |
| PHYSICAL [1] | | | |
| Density | 1.71 | g/cm³ | ASTM D792 |
| Moisture Absorption, (23°C/50% RH/24 hrs) | 0.3 | % | ASTM D570 |
| Mold Shrinkage, flow, 24 hrs [2] | 0.3 | % | ASTM D955 |
| Mold Shrinkage, xflow, 24 hrs [2] | 0.4 | % | ASTM D955 |
| Mold Shrinkage, flow, 24 hrs [2] | 0.29 | % | ISO 294 |
| Mold Shrinkage, xflow, 24 hrs [2] | 0.44 | % | ISO 294 |
| Density | 1.71 | g/cm³ | ISO 1183 |
| INJECTION MOLDING [3] | | | |
| 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 | |

(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) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(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.

## MORE INFORMATION

For curve data and CAE cards, please visit and register at https://materialfinder.sabic-specialties.com

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