



## LNP™ THERMOCOMP™ Compound PF00DS-BK1G298

### Europe-Africa-Middle East: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound PF10013HS

Product reorder name: PF00DS-BK1G298

LNP THERMOCOMP\* PF00DS is a compound based on PA6 resin containing Glass Fiber. Added features of this material include: Heat Stabilized. Custom color Black.

| TYPICAL PROPERTIES <sup>1</sup>              | TYPICAL VALUE | Unit              | Standard          |
|----------------------------------------------|---------------|-------------------|-------------------|
| <b>MECHANICAL</b>                            |               |                   |                   |
| Tensile Stress, break, 5 mm/min              | 235           | MPa               | ISO 527           |
| Tensile Strain, break, 5 mm/min              | 1.8           | %                 | ISO 527           |
| Flexural Stress, break, 2 mm/min             | 335           | MPa               | ISO 178           |
| Flexural Modulus, 2 mm/min                   | 19000         | MPa               | ISO 178           |
| <b>IMPACT</b>                                |               |                   |                   |
| Izod Impact, unnotched 80*10*4 +23°C         | 65            | kJ/m <sup>2</sup> | ISO 180/1U        |
| Izod Impact, notched 80*10*4 +23°C           | 14            | kJ/m <sup>2</sup> | ISO 180/1A        |
| <b>THERMAL</b>                               |               |                   |                   |
| CTE, 23°C to 60°C, flow                      | 1.E-05        | 1/°C              | ISO 11359-2       |
| CTE, 23°C to 60°C, xflow                     | 6.E-05        | 1/°C              | ISO 11359-2       |
| HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm      | 220           | °C                | ISO 75/Ae         |
| <b>PHYSICAL</b>                              |               |                   |                   |
| Mold Shrinkage, flow (5)                     | 0.1 - 0.2     | %                 | SABIC Method      |
| Density                                      | 1.7           | g/cm <sup>3</sup> | ISO 1183          |
| <b>ELECTRICAL</b>                            |               |                   |                   |
| Surface Resistivity                          | 1.E+14        | Ohm               | ASTM D 257        |
| <b>FLAME CHARACTERISTICS</b>                 |               |                   |                   |
| UL Compliant, 94HB Flame Class Rating (3)(4) | 0.8           | mm                | UL 94 by SABIC-IP |



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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| Drying Temperature          | 80            | °C   |
| Drying Time                 | 4             | hrs  |
| Maximum Moisture Content    | 0.15 - 0.25   | %    |
| Melt Temperature            | 265 - 275     | °C   |
| Front - Zone 3 Temperature  | 275 - 290     | °C   |
| Middle - Zone 2 Temperature | 265 - 275     | °C   |
| Rear - Zone 1 Temperature   | 250 - 260     | °C   |
| Mold Temperature            | 80 - 95       | °C   |
| Back Pressure               | 0.3 - 0.7     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |