

SABIC Innovative Plastics LNP THERMOCOMP RC004SXC PA 66 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* THERMOCOMP* RC004SXC is a compound based on PA66 resin containing Carbon Fiber. Added features include: Electrically Conductive, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RC004SXC-PA-66-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|---------------------------|--------------|
| Density | 1.22 g/cc | 0.0441 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0030 cm/cm | 0.0010 - 0.0030 in/in | SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength at Break | 200 MPa | 29000 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | 5 mm/min; ISO 527 |
| Flexural Strength | 269 MPa | 39000 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 10.5 GPa | 1520 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 7.00 kJ/m ² | 3.33 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 35.0 kJ/m ² | 16.7 ft-lb/in ² | 80*10*4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|--|--|----------------------------------|
| CTE, linear, Parallel to Flow | 17.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 9.44 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$ | @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$ | |
| Deflection Temperature at 1.8 MPa (264 psi) | 250 $\text{Å}^\circ\text{C}$ | 482 $\text{Å}^\circ\text{F}$ | Flatw 80*10*4 sp=64mm; ISO 75/Af |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Surface Resistance | 100 - 10000 ohm | 100 - 10000 ohm | ASTM D257 |

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