

# LNPT<sup>TM</sup> THERMOCOMP<sup>TM</sup> COMPOUND OC006

OC-1006

REGION AMERICAS

## DESCRIPTION

LNP THERMOCOMP OC006 compound is based on linear Polyphenylene Sulfide (PPS) resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive.

### GENERAL INFORMATION

|                       |                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------|
| Features              | Electrically Conductive, Carbon fiber filled, High stiffness/Strength, No PFAS intentionally added |
| Fillers               | Carbon Fiber                                                                                       |
| Polymer Types         | Polyphenylene Sulfide, Linear (PPS, Linear)                                                        |
| Processing Techniques | Injection Molding                                                                                  |

### INDUSTRY

Building and Construction  
Consumer  
Electrical and Electronics  
Industrial

### SUB INDUSTRY

Building Component  
Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance  
Mobile Phone - Computer - Tablets  
Electrical

## TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES                                          | TYPICAL VALUES                    | UNITS             | TEST METHODS |
|-----------------------------------------------------|-----------------------------------|-------------------|--------------|
| <b>MECHANICAL <sup>(1)</sup></b>                    |                                   |                   |              |
| Tensile Stress, break                               | 186                               | MPa               | ASTM D638    |
| Tensile Strain, break                               | 1.2                               | %                 | ASTM D638    |
| Tensile Modulus, 50 mm/min                          | 23920                             | MPa               | ASTM D638    |
| Flexural Stress                                     | 282                               | MPa               | ASTM D790    |
| Flexural Modulus                                    | 21160                             | MPa               | ASTM D790    |
| <b>IMPACT <sup>(1)</sup></b>                        |                                   |                   |              |
| Izod Impact, unnotched, 23°C                        | 640                               | J/m               | ASTM D4812   |
| Izod Impact, notched, 23°C                          | 74                                | J/m               | ASTM D256    |
| <b>THERMAL <sup>(1)</sup></b>                       |                                   |                   |              |
| Relative Temp Index, Elec <sup>(2)</sup>            | 130                               | °C                | UL 746B      |
| Relative Temp Index, Mech w/impact <sup>(2)</sup>   | 130                               | °C                | UL 746B      |
| Relative Temp Index, Mech w/o impact <sup>(2)</sup> | 130                               | °C                | UL 746B      |
| <b>PHYSICAL <sup>(1)</sup></b>                      |                                   |                   |              |
| Density                                             | 1.43                              | g/cm <sup>3</sup> | ASTM D792    |
| <b>FLAME CHARACTERISTICS <sup>(2)</sup></b>         |                                   |                   |              |
| UL Yellow Card Link                                 | <a href="#">E121562-101284689</a> | -                 | -            |
| UL Recognized, 94V-0 Flame Class Rating             | 1                                 | mm                | UL 94        |
| <b>INJECTION MOLDING <sup>(3)</sup></b>             |                                   |                   |              |

| PROPERTIES                  | TYPICAL VALUES | UNITS | TEST METHODS |
|-----------------------------|----------------|-------|--------------|
| Drying Temperature          | 120 – 150      | °C    |              |
| Drying Time                 | 4              | Hrs   |              |
| Melt Temperature            | 315 – 320      | °C    |              |
| Front - Zone 3 Temperature  | 330 – 345      | °C    |              |
| Middle - Zone 2 Temperature | 320 – 330      | °C    |              |
| Rear - Zone 1 Temperature   | 305 – 315      | °C    |              |
| Mold Temperature            | 140 – 165      | °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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