

# LNPTM THERMOCOMPTM COMPOUND PX92248

PDX-P-92248

## DESCRIPTION

LNP THERMOCOMP PX92248 compound is based on Nylon 6 resin containing 30% glass fiber. Added features of this grade include: Improved Impact, UV Stabilized.

### GENERAL INFORMATION

|                       |                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------|
| Features              | High stiffness/Strength, Impact resistant, Weatherable/UV stable, No PFAS intentionally added |
| Fillers               | Glass Fiber                                                                                   |
| Polymer Types         | Polyamide 6 (Nylon 6)                                                                         |
| Processing Techniques | Injection Molding                                                                             |

### INDUSTRY

Building and Construction  
Consumer  
Electrical and Electronics  
Industrial

### SUB INDUSTRY

Building Component  
Sport/Leisure, Personal Accessory, 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                        | 107            | MPa               | ASTM D638    |
| Tensile Stress, brk, Type I, 5 mm/min        | 107            | MPa               | ASTM D638    |
| Tensile Strain, break                        | 2.5            | %                 | ASTM D638    |
| Tensile Strain, brk, Type I, 5 mm/min        | 2.5            | %                 | ASTM D638    |
| Tensile Modulus, 50 mm/min                   | 8840           | MPa               | ASTM D638    |
| Flexural Stress                              | 179            | MPa               | ASTM D790    |
| Flexural Stress, brk, 1.3 mm/min, 50 mm span | 179            | MPa               | ASTM D790    |
| Flexural Modulus                             | 7220           | MPa               | ASTM D790    |
| Flexural Modulus, 1.3 mm/min, 50 mm span     | 7220           | MPa               | ASTM D790    |
| <b>IMPACT <sup>(1)</sup></b>                 |                |                   |              |
| Izod Impact, unnotched, 23°C                 | 843            | J/m               | ASTM D4812   |
| Izod Impact, notched, 23°C                   | 138            | J/m               | ASTM D256    |
| <b>THERMAL <sup>(1)</sup></b>                |                |                   |              |
| HDT, 1.82 MPa, 3.2mm, unannealed             | 195            | °C                | ASTM D648    |
| <b>PHYSICAL <sup>(1)</sup></b>               |                |                   |              |
| Density                                      | 1.34           | g/cm <sup>3</sup> | ASTM D792    |
| Mold Shrinkage, flow, 24 hrs <sup>(2)</sup>  | 0.2            | %                 | ASTM D955    |
| <b>INJECTION MOLDING <sup>(3)</sup></b>      |                |                   |              |
| Drying Temperature                           | 80             | °C                |              |
| Drying Time                                  | 4              | Hrs               |              |

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CHEMISTRY THAT MATTERS™

| PROPERTIES                  | TYPICAL VALUES | UNITS | TEST METHODS |
|-----------------------------|----------------|-------|--------------|
| 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   |              |

- (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.

## 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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