

**Product Texts**

LNP THERMOTUF PX95726 compound is based on Nylon 6 resin containing 15% glass fiber. Added features of this grade include: Heat Stabilized, Impact Modified.

| Processing/Physical Characteristics | Value | Unit  | Test Standard |
|-------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                    |       |       |               |
| Mold Shrinkage, MD                  | 0.45  | mm/mm | ASTM D 955    |
| Mold Shrinkage, TD                  | 0.95  | mm/mm | ASTM D 955    |

| Mechanical properties                    | Value | Unit              | Test Standard |
|--|-------|-------------------|---------------|
| <b>ISO Data</b>                          |       |                   |               |
| Tensile Modulus                          | 5790  | MPa               | ISO 527       |
| Yield stress                             | 109   | MPa               | ISO 527       |
| Yield strain                             | 3     | %                 | ISO 527       |
| Stress at break                          | 105   | MPa               | ISO 527       |
| Strain at break                          | 3.8   | %                 | ISO 527       |
| Flexural modulus                         | 4790  | MPa               | ISO 178       |
| Flexural strength                        | 160   | MPa               | ISO 178       |
| Izod impact strength, +23°C, 4mm         | 53    | kJ/m <sup>2</sup> | ISO 180/1U    |
| Izod notched impact strength, +23°C, 4mm | 6     | kJ/m <sup>2</sup> | ISO 180/1A    |
| <b>ASTM Data</b>                         |       |                   |               |
| Tensile Modulus                          | 5830  | MPa               | ASTM D 638    |
| Tensile Strength at Yield                | 111   | MPa               | ASTM D 638    |
| Tensile Strength at Break                | 108   | MPa               | ASTM D 638    |
| Elongation at Yield                      | 3.1   | %                 | ASTM D 638    |
| Elongation at Break                      | 3.7   | %                 | ASTM D 638    |
| Flexural Modulus                         | 4960  | MPa               | ASTM D 790    |
| Flexural Strength                        | 170   | MPa               | ASTM D 790    |
| Izod Impact notched, 1/8 in              | 67    | J/m               | ASTM D 256    |
| Izod Impact unnotched, 1/8 in            | 876   | J/m               | ASTM D 256    |

| Thermal properties                       | Value | Unit  | Test Standard |
|--|-------|-------|---------------|
| <b>ISO Data</b>                          |       |       |               |
| Temp. of deflection under load, 1.80 MPa | 191   | °C    | ISO 75-1/-2   |
| Temp. of deflection under load, 0.45 MPa | 214   | °C    | ISO 75-1/-2   |
| <b>ASTM Data</b>                         |       |       |               |
| Coefficient of Thermal Expansion, MD     | 43.9  | E-6/K | ASTM D 696    |
| Coefficient of Thermal Expansion, TD     | 138   | E-6/K | ASTM D 696    |
| DTUL @ 264 psi                           | 201   | °C    | ASTM D 648    |

| Other properties       | Value | Unit              | Test Standard  |
|------------------------|-------|-------------------|----------------|
| Humidity absorption    | 1.6   | %                 | Sim. to ISO 62 |
| Water Absorption, 24hr | 1.1   | %                 | ASTM D 570     |
| Density                | 1220  | kg/m <sup>3</sup> | ASTM D 792     |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 80        | °C   | -             |
| Pre-drying - Time                           | 4         | h    | -             |
| Processing humidity                         | ≤0.25     | %    | -             |
| Melt temperature                            | 265 - 275 | °C   | -             |
| Mold temperature                            | 80 - 95   | °C   | -             |
| Zone 1                                      | 250 - 260 | °C   | -             |
| Zone 2                                      | 265 - 275 | °C   | -             |
| Zone 3                                      | 275 - 290 | °C   | -             |
| Screw speed                                 | 30 - 60   | rpm  | -             |
| Back pressure                               | 0.3 - 0.7 | MPa  | -             |

**Characteristics**

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

High impact or impact modified