

# LNP™ THERMOTUF™ W1000I compound

Polybutylene Terephthalate  
SABIC Innovative Plastics Europe

Message:

LNP THERMOTUF W1000I is a compound based on Polybutylene Terephthalate resin. Added features include: High Impact  
Also known as: LNP\* THERMOTUF\* Compound W1000HI  
Product reorder name: W1000I

| General Information                              |                        |                   |                 |
|--------------------------------------------------|------------------------|-------------------|-----------------|
| Features                                         | High Impact Resistance |                   |                 |
| RoHS Compliance                                  | RoHS Compliant         |                   |                 |
| Processing Method                                | Injection Molding      |                   |                 |
| Physical                                         | Nominal Value          | Unit              | Test Method     |
| Density                                          | 1.22                   | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow                         | 2.0 to 2.4             | %                 | Internal Method |
| Water Absorption (Equilibrium, 23°C, 50% RH)     | 0.10                   | %                 | ISO 62          |
| Mechanical                                       | Nominal Value          | Unit              | Test Method     |
| Tensile Modulus                                  | 1500                   | MPa               | ISO 527-2/1     |
| Tensile Stress (Yield)                           | 36.0                   | MPa               | ISO 527-2/5     |
| Flexural Modulus <sup>1</sup>                    | 1600                   | MPa               | ISO 178         |
| Flexural Stress                                  | 46.0                   | MPa               | ISO 178         |
| Impact                                           | Nominal Value          | Unit              | Test Method     |
| Notched Izod Impact Strength <sup>2</sup> (23°C) | 70                     | kJ/m <sup>2</sup> | ISO 180/1A      |
| Thermal                                          | Nominal Value          | Unit              | Test Method     |
| Heat Deflection Temperature <sup>3</sup>         |                        |                   |                 |
| 0.45 MPa, Unannealed, 64.0 mm Span               | 80.0                   | °C                | ISO 75-2/Bf     |
| 1.8 MPa, Unannealed, 64.0 mm Span                | 52.0                   | °C                | ISO 75-2/Af     |
| CLTE                                             |                        |                   | ISO 11359-2     |
| Flow : 23 to 60°C                                | 1.4E-4                 | cm/cm/°C          |                 |
| Transverse : 23 to 60°C                          | 1.3E-4                 | cm/cm/°C          |                 |
| Electrical                                       | Nominal Value          | Unit              | Test Method     |
| Surface Resistivity                              | 1.0E+15                | ohms              | ASTM D257       |
| Injection                                        | Nominal Value          | Unit              |                 |
| Drying Temperature                               | 121                    | °C                |                 |
| Drying Time                                      | 4.0                    | hr                |                 |
| Suggested Max Moisture                           | 0.050                  | %                 |                 |
| Rear Temperature                                 | 221 to 232             | °C                |                 |
| Middle Temperature                               | 243 to 254             | °C                |                 |
| Front Temperature                                | 260 to 271             | °C                |                 |
| Processing (Melt) Temp                           | 238 to 266             | °C                |                 |

|                  |                |     |
|------------------|----------------|-----|
| Mold Temperature | 82.2 to 98.9   | °C  |
| Back Pressure    | 0.172 to 0.344 | MPa |
| Screw Speed      | 30 to 60       | rpm |

| NOTE |            |  |
|------|------------|--|
| 1.   | 2.0 mm/min |  |
| 2.   | 80*10*4    |  |
| 3.   | 80*10*4 mm |  |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT