

## DSM Stanyl® TW241F3 Nylon 46-15% Glass Reinforced, Heat Stabilized, Lubricated (Asian Grade) (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Glass Fiber Reinforced

### Material Notes:

Stanyl is a high performance polyamide providing performance and value across a broad range of automotive and electronic applications. Stanyl offers: Highest mechanical properties at high temperatures Excellent resistance to wear and low friction Outstanding flow for easy processing and exceptional design freedom Stanyl High Flow grades that match the best flowing LCPs while maintaining a high level of mechanical properties Key Applications: Automotive: Powertrain components, Charge-air coolers, EPS and ETC gears, Motor Sensors, Auto connectors, Chain tensioners E&E: Connectors, Microswitches, Bobbins, Memory modules, Motor components, Industrial, Specialty films and fibers, Consumer appliances Information provided by DSM.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Stanyl-TW241F3-Nylon-46-15-Glass-Reinforced-Heat-Stabilized-Lubricated-Asian-Grade-Dry.php](http://www.lookpolymers.com/polymer_DSM-Stanyl-TW241F3-Nylon-46-15-Glass-Reinforced-Heat-Stabilized-Lubricated-Asian-Grade-Dry.php)

| Physical Properties | Metric    | English                   | Comments |
|---------------------|-----------|---------------------------|----------|
| Density             | 1.29 g/cc | 0.0466 lb/in <sup>3</sup> | ISO 1183 |

| Mechanical Properties     | Metric   | English   | Comments     |
|---------------------------|----------|-----------|--------------|
| Tensile Strength at Break | 140 MPa  | 20300 psi | ISO 527-1/-2 |
| Elongation at Break       | 4.0 %    | 4.0 %     | ISO 527-1/-2 |
| Tensile Modulus           | 6.10 GPa | 885 ksi   | ISO 527-1/-2 |

| Thermal Properties                          | Metric               | English              | Comments                 |
|---------------------------------------------|----------------------|----------------------|--------------------------|
| CTE, linear                                 | 30.0 µm/m-°C         | 16.7 µin/in-°F       | ISO 11359-1/-2           |
|                                             | @Temperature 20.0 °C | @Temperature 68.0 °F |                          |
| CTE, linear, Transverse to Flow             | 90.0 µm/m-°C         | 50.0 µin/in-°F       | ISO 11359-1/-2           |
|                                             | @Temperature 20.0 °C | @Temperature 68.0 °F |                          |
| Melting Point                               | 295 °C               | 563 °F               | 10°C/min; ISO 11357-1/-3 |
| Deflection Temperature at 1.8 MPa (264 psi) | 275 °C               | 527 °F               | ISO 75-1/-2              |

## Contact Songhan Plastic Technology Co.,Ltd.

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