

# Stanyl® TW278F10

Polyamide 46  
DSM Engineering Plastics

Message:

Stanyl® TW278F10 is a Polyamide 46 (Nylon 46) material filled with 50% glass fiber. It is available in Asia Pacific, Europe, or North America.  
Important attributes of Stanyl® TW278F10 are:  
Heat Stabilizer  
Wear Resistant

| General Information    |                                  |  |  |
|------------------------|----------------------------------|--|--|
| Filler / Reinforcement | Glass Fiber,50% Filler by Weight |  |  |
| Additive               | Heat Stabilizer                  |  |  |
| Features               | Good Wear Resistance             |  |  |
|                        | Heat Stabilized                  |  |  |
|                        | Low Friction                     |  |  |

| Physical | Nominal Value | Unit              | Test Method |
|----------|---------------|-------------------|-------------|
| Density  | 1.69          | g/cm <sup>3</sup> | ISO 1183    |

| Mechanical             | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|-------------|
| Tensile Modulus        | 16000         | MPa  | ISO 527-2   |
| Tensile Stress (Break) | 225           | MPa  | ISO 527-2   |
| Tensile Strain (Break) | 2.0           | %    | ISO 527-2   |

| Impact                                | Nominal Value | Unit              | Test Method |
|---------------------------------------|---------------|-------------------|-------------|
| Charpy Notched Impact Strength (23°C) | 18            | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Izod Impact Strength (23°C)   | 18            | kJ/m <sup>2</sup> | ISO 180/1A  |

| Thermal                                           | Nominal Value | Unit | Test Method |
|---------------------------------------------------|---------------|------|-------------|
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 285           | °C   | ISO 75-2/A  |
| Melting Temperature                               | 290           | °C   | ISO 11357-3 |

| Injection               | Nominal Value | Unit |
|-------------------------|---------------|------|
| Drying Temperature      | 80.0          | °C   |
| Drying Time             | 4.0 to 8.0    | hr   |
| Rear Temperature        | 280 to 320    | °C   |
| Middle Temperature      | 300 to 320    | °C   |
| Front Temperature       | 300 to 320    | °C   |
| Nozzle Temperature      | 300 to 320    | °C   |
| Processing (Melt) Temp  | 305 to 320    | °C   |
| Mold Temperature        | 80.0 to 120   | °C   |
| Injection Rate          | Moderate-Fast |      |
| Back Pressure           | 2.00 to 10.0  | MPa  |
| Screw Compression Ratio | 2.5:1.0       |      |

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