

## DSM Stanyl® TW241F8 Nylon 46-40% Glass Reinforced, Heat Stabilized, Lubricated (Asian Grade) (Cond)

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

### Material Notes:

Stanlyl is a high performance polyamide providing good performance and value across a broad range of automotive and electronic applications. Stanlyl offers: Highest mechanical properties at high temperatures Excellent resistance to wear and low friction Outstanding flow for easy processing and exceptional design freedom Stanlyl 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-TW241F8-Nylon-46-40-Glass-Reinforced-Heat-Stabilized-Lubricated-Asian-Grade-Cond.php](http://www.lookpolymers.com/polymer_DSM-Stanyl-TW241F8-Nylon-46-40-Glass-Reinforced-Heat-Stabilized-Lubricated-Asian-Grade-Cond.php)

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in <sup>3</sup>	DAM; ISO 1183
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	DAM; ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	DAM; ISO 194-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ISO 527-1/-2
Elongation at Break	6.0 %	6.0 %	ISO 527-1/-2
Tensile Modulus	8.00 GPa	1160 ksi	ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm <sup>2</sup>	35.7 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	9.50 J/cm <sup>2</sup>	45.2 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.20 J/cm <sup>2</sup>	10.5 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	295 °C	563 °F	10°C/min (DAM); ISO 11357-1/-3

## **Contact Songhan Plastic Technology Co.,Ltd.**

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