

DSM Stanyl® 46HF5041LW (DAM) Nylon 46 40% Glass Reinforced, Heat Stabilized, Flame Retardant, High Flow, Low Warpage (North America)

Category : Polymer , Thermoplastic , Nylon , Nylon 46 , Nylon 46, Flame Retarded + Glass Fiber Reinforced

Material Notes:

Information provided by DSM Engineering Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Stanyl-46HF5041LW-DAM-Nylon-46-40-Glass-Reinforced-Heat-Stabilized-Flame-Retardant-High-Flow-Low-Warpage-North-America.php

Physical Properties	Metric	English	Comments
Density	1.87 g/cc	0.0676 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.1 %	1.1 %	50% RH / 23°C; Similar to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ISO 527-1/-2
Elongation at Break	1.3 %	1.3 %	ISO 527-1/-2
Tensile Modulus	16.0 GPa	2320 ksi	ISO 527-1/-2
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	295 °C	563 °F	ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	270 °C	518 °F	ISO 75-1/-2
UL RTI, Electrical	140 °C	284 °F	UL746B
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Flammability, UL94	V-0	V-0	
	@Thickness 0.400 mm	@Thickness 0.0157 in	

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