

DSM Stanyl® 46HF5040 (DAM) Nylon 46 40% Glass Reinforced, Heat Stabilized, Flame Retardant, High Flow (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-46HF5040-DAM-Nylon-46-40-Glass-Reinforced-Heat-Stabilized-Flame-Retardant-High-Flow-North-America.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|-----------|---------------------------|----------------------------------|
| Density | 1.77 g/cc | 0.0639 lb/in ³ | ISO 1183 |
| Moisture Absorption at Equilibrium | 1.3 % | 1.3 % | 50% RH / 23°C; Similar to ISO 62 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|---|---|--------------|
| Tensile Strength at Break | 190 MPa | 27600 psi | ISO 527-1/-2 |
| Elongation at Break | 1.7 % | 1.7 % | ISO 527-1/-2 |
| Tensile Modulus | 15.0 GPa | 2180 ksi | ISO 527-1/-2 |
| Charpy Impact Unnotched | 6.00 J/cm ² | 28.6 ft-lb/in ² | ISO 179/1eU |
| Charpy Impact, Notched | 1.20 J/cm ² | 5.71 ft-lb/in ² | ISO 179/1eU |
| | 1.20 J/cm ² @Temperature -30.0 °C | 5.71 ft-lb/in ² @Temperature -22.0 °F | ISO 179/1eU |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------------------|--|----------------|
| CTE, linear, Parallel to Flow | 20.0 µm/m-°C @Temperature 20.0 °C | 11.1 µin/in-°F @Temperature 68.0 °F | ISO 11359-1/-2 |
| CTE, linear, Transverse to Flow | 80.0 µm/m-°C @Temperature 20.0 °C | 44.4 µin/in-°F @Temperature 68.0 °F | ISO 11359-1/-2 |
| Melting Point | 295 °C | 563 °F | ISO 11357-1/-3 |
| Deflection Temperature at 1.8 MPa (264 psi) | 290 °C | 554 °F | ISO 75-1/-2 |
| UL RTI, Electrical | 140 °C @Thickness 1.50 mm | 284 °F @Thickness 0.0591 in | UL746B |
| Flammability, UL94 | V-0 | V-0 | |

| Thermal Properties | @Thickness 0.350 mm Metric | @Thickness 0.0138 in English | Comments |
|----------------------------|-------------------------------|---------------------------------|-------------|
| Electrical Properties | Metric | English | Comments |
| Volume Resistivity | 1.00e+13 ohm-cm | 1.00e+13 ohm-cm | IEC 60093 |
| Dielectric Strength | 30.0 kV/mm | 762 kV/in | IEC 60243-1 |
| Comparative Tracking Index | 350 V | 350 V | IEC 60112 |

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