

Nylene® 5150 HS

TECHNICAL DATASHEET

TDS Ref # 125 Reviewed: 8/22/2013

DESCRIPTION

- Glass fiber reinforced, heat-stabilized nylon 6/6 injection molding resin
- Formulated to exhibit maximum stiffness for the most demanding applications
- Should be used in parts and tools specifically designed to accommodate such high glass fiber loadings, in order to maximize part performance

| PROPERTIES | TEST METHOD | UNIT | VALUE |
|------------------------------|-------------|-------------------|--------------------|
| PHYSICAL PROPERTIES | | | |
| Density | ISO 1183 | g/cm ³ | 1.54 |
| Mold Shrinkage | D955 | mm/mm | .01 |
| | n/a | in/in | 0.002 |
| Specific Gravity | D792 | n/a | 1.56 |
| MECHANICAL PROPERTIES | | | |
| Charpy Impact | ISO 179 | kJ/m ² | 145 |
| Elongation @ Break | (%) | psi (MPa) | 3 |
| Flexural Modulus | ISO 178 | MPa | 10020 |
| | D790 | psi (MPa) | 1,460,000 (10,070) |
| Notched Izod @ 23°C | D256 | ftlb/in (J/m) | 3.0 (160) |
| Tensile Strength | ISO 527 | MPa | 195 |
| | D638 | psi (MPa) | 28,000 (195) |
| THERMAL PROPERTIES | | | |
| DTUL @ 1800 kPa | ISO 75 | °C | 245 |
| DTUL @ 1820 kPa | D648 | °F (°C) | 480 (249) |
| Melt Point | ISO 11357 | °C (°F) | 255 |
| | D3418 | °F | 490 |

NOTES

- Testing conducted on dry-as-molded specimens at 73°F

PROCESSING CONSIDERATIONS: PA 6/6 GLASS REINFORCED > 15%

CHARACTERISTICS

Resin Type: Nylon 6/6
 Product Characteristics:
 Glass Reinforced, Heat Stabilized

INJECTION MOLDING PROCESSING

Prime Grade

FEATURES

- High tensile strength
- Very high stiffness

MARKETS USED

- Automotive Applications
- General Applications
- Industrial Applications
- Tool & Appliance

APPLICATIONS

- Bracket
- Engine Mounts
- Housing
- Power Equipment Housings

DISCLAIMER

The data set forth herein has been carefully compiled by Nylene in our laboratories. Values shown are typical properties and not specifications. Since processing variables will affect properties, the reproducibility of our data in a customer's testing facility is not guaranteed. There is no warranty of any kind, either expressed or implied, applicable to the use of this information, and the user assumes all risk and liability in connection therewith.



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