

Ascend Performance Materials Vydyne® 75HF Nylon 66/6, Heat Stabilized, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, Unreinforced

Material Notes:

Vydyne® 75HF is a medium-high-viscosity, heat-stabilized PA66/6 copolymer resin designed for extrusion applications. It is available in natural color only. Vydyne 75HF resin offers a well-balanced combination of engineering properties characterized by high melt point; high strength and rigidity; good toughness; soft hand and good chemical resistance. This resin is especially useful in applications where high elongation, good clarity in thin sections and soft feel are required. Typical Applications/End Uses: Typical uses include packaging films, monofilaments, bristles, and extruded profiles. Availability: Asia Pacific Europe North America Additives: Heat Stabilizer Features: Gasoline Resistance General Purpose Good Chemical Resistance Good Toughness Heat Stabilized High Melt Stability High Molecular Weight High Rigidity High Strength Medium Viscosity Oil Resistant Solvent Resistant Uses: Film Industrial Applications Monofilaments Profiles Rods Sheet Tubing Vacuum Bagging Film Appearance: Natural Color Forms: Pellets Processing Method: Extrusion Information provided by Ascend Performance Materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-75HF-Nylon-666-Heat-Stabilized-Conditioned.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--------------------------|---------------------------|----------------|
| Density | 1.14 g/cc | 0.0412 lb/in ³ | ISO 1183 |
| Water Absorption | 8.5 % @Time 86400 sec | 8.5 % @Time 24.0 hour | ISO 62 |
| Moisture Absorption at Equilibrium | 2.5 % | 2.5 % | 50% RH; ISO 62 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|---|-----------|
| Tensile Strength at Break | 40.0 MPa | 5800 psi | ISO 527-2 |
| Tensile Strength, Yield | 25.0 MPa | 3630 psi | ISO 527-2 |
| Elongation at Break | >= 200 % | >= 200 % | ISO 527-2 |
| Elongation at Yield | 30 % | 30 % | ISO 527-2 |
| Tensile Modulus | 0.500 GPa | 72.5 ksi | ISO 527-2 |
| Flexural Strength | 8.00 MPa | 1160 psi | ISO 178 |
| Flexural Modulus | 0.250 GPa | 36.3 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 6.00 kJ/m ² @Temperature -30.0 °C | 2.86 ft-lb/in ² @Temperature -22.0 °F | ISO 180 |
| | NB | NB | ISO 180 |

| Mechanical Properties | @Temperature 23.0 °C Metric | @Temperature 73.4 °F English | Comments |
|------------------------------|--|---|-----------------|
| Charpy Impact Unnotched | NB | NB | ISO 179/1eU |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| | NB | NB | ISO 179/1eU |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 0.600 J/cm ² | 2.86 ft-lb/in ² | ISO 179/1eA |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| | NB | NB | ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

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