

Ascend Performance Materials Vydyne® 25WSP Nylon 66, Conditioned (2.5% Moisture)

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

Material Notes:

Vydyne® 25WSP is a black, weather resistant injection molding grade Nylon 66 resin. These resins offer a well-balanced combination of engineering properties characterized by high strength, rigidity, good toughness, high melt point, good surface lubricity and abrasion resistance. Vydyne 25WSP maintains the chemical resistance typical of nylon to many chemicals, solvents, gasoline, and machine and motor oils. Weather resistance is obtained by incorporating finely divided, well dispersed carbon black particles in the nylon matrix. While the presence of carbon black usually increases brittleness, these resins have been formulated to minimize loss of ductility properties such as elongation and Izod impact strength. As a result, parts molded from 25WSP frequently exhibit higher ductility and practical toughness compared with other black, weather resistant, non-impact modified Nylon 66 molded parts. Vydyne 25WSP resins are internally and externally lubricated for improved machine feed and exceptional mold release. Vydyne 25WSP is intended for use in high-productivity applications. In many applications, the molding cycle can be reduced because molded parts may be removed from the cavity at higher temperatures. In difficult molds where parts have a tendency to stick in the cavity, Vydyne 25WSP can reduce or eliminate the need for mold release sprays. Critical molded part dimensions should be checked against specifications before implementing shorter molding cycles on a routine production basis. Typical Applications/End Uses. Lubricated for machine feed and mold release, Vydyne 25WSP provides very good flow and easy moldability. Typical applications include cable ties/ tie straps, where its combination of easy flow, good ductility, and high tensile strength is particularly attractive, and a wide variety of electrical/electronic and miscellaneous applications requiring weather resistance.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-25WSP-Nylon-66-Conditioned-25-Moisture.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ISO 1183
Water Absorption	1.2 % @Time 86400 sec	1.2 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.4 %	2.4 %	50% RH; ISO 62
Linear Mold Shrinkage	0.014 cm/cm @Thickness 2.00 mm	0.014 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.016 cm/cm @Thickness 2.00 mm	0.016 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	77.0 MPa	11200 psi	ISO 527-2
Elongation at Break	60 %	60 %	ISO 527-2

Elongation at Yield Mechanical Properties	25 % Metric	25 % English	ISO 527-2 Comments
Tensile Modulus	1.55 GPa	225 ksi	ISO 527-2
Flexural Strength	22.0 MPa	3190 psi	ISO 178
Flexural Modulus	1.40 GPa	203 ksi	ISO 178

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