Ascend Performance Materials Vydyne® 66R Nylon 66, General Purpose, high viscosity, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Vydyne® 66R is a high-viscosity, heat-stabilized PA66 resin suitable for injection-molding and extrusion applications. It is available in natural color only. Vydyne 66R resin offers high strength, rigidity and toughness over a broad range of demanding applications and good fluid resistance to a wide variety of chemicals, solvents and oils. Typical Applications/End Uses: Typical uses include packaging films, monofilaments, bristles, rods, tubing, sheet and extruded profiles.Availability:Asia PacificEuropeNorth AmericaAdditive: Heat StabilizerSlip Features:Gasoline ResistanceGeneral PurposeGood Chemical ResistanceGood ToughnessHeat StabilizedHigh RigidityHigh StrengthHigh ViscosityKosher ApprovedOil ResistantSlipSolvent ResistantUses:FilmIndustrial ApplicationsMonofilamentsProfilesRodsSheetTubingAppearance: Natural ColorForms: PelletsProcessing Method: ExtrusionInformation provided by Ascend

Order this product through the following link:
http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-66R-Nylon-66-General-Purpose-high-viscosity-DAM.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ISO 1183
Water Absorption	8.5 %	8.5 %	24 hrs; ISO 62
Moisture Absorption at Equilibrium	2.5 %	2.5 %	Equilibrium at 50%rh; ISO 62
Linear Mold Shrinkage	0.021 cm/cm @Thickness 2.00 mm	0.021 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.020 cm/cm @Thickness 2.00 mm	0.020 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527-2
Elongation at Break	55 %	55 %	ISO 527-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	2.80 GPa	406 ksi	ISO 527-2
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Flexural Modulus	3.10 GPa	450 ksi	ISO 178
Poissons Ratio	0.40	0.40	ISO 527-2
Izod Impact, Notched (ISO)	6.00 kJ/m²	2.86 ft-lb/in²	ISO 180

Mechanical Properties	Metric	English	Comments
	6.00 kJ/m² @Temperature -30.0 °C	2.86 ft-lb/in² @Temperature -22.0 °F	ISO 180
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.600 J/cm² @Temperature 23.0 °C	2.86 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA
	0.600 J/cm² @Temperature -30.0 °C	2.86 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	10.0 µm/m-°C @Thickness 2.00 mm, Temperature 23.0 - 55.0 °C	5.56 µin/in-°F @Thickness 0.0787 in, Temperature 73.4 - 131 °F	ISO 11359-2
CTE, linear, Transverse to Flow	10.0 µm/m-°C @Thickness 2.00 mm, Temperature 23.0 - 55.0 °C	5.56 µin/in-°F @Thickness 0.0787 in, Temperature 73.4 - 131 °F	ISO 11359-2
Melting Point	260 °C	500 °F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75-2/A

Processing Properties	Metric	English	Comments
Zone 1	250 - 295 °C	482 - 563 °F	
Zone 2	250 - 295 °C	482 - 563 °F	
Zone 3	250 - 295 °C	482 - 563 °F	
Zone 4	250 - 295 °C	482 - 563 °F	
Zone 5	250 - 295 °C	482 - 563 °F	
Die Temperature	270 - 295 °C	518 - 563 °F	
Melt Temperature	270 - 295 °C	518 - 563 °F	

Processing Properties	Metric	English	Comments
Back Pressure	3.00 - 17.0 MPa	435 - 2470 psi	

Descriptive Properties	Value	Comments
Blown Film Bath Temperature	20-80°C	
Chill Roll Temperature (Cast Film)	20-80°C	

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