

## Ascend Performance Materials Vydyn<sup>®</sup> 21SPF BLK Nylon 66, DAM

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

### Material Notes:

Vydyn<sup>®</sup> 21SPF BLK is a, general-purpose PA66 resin used for extrusion-compounding. Available in black, it is designed principally for injection-molding fabrication. This grade offers a well-balanced combination of engineering properties characterized by high strength; rigidity; good toughness; high melt point; good surface lubricity; abrasion resistance and resistance to many chemicals, machine and motor oils, solvents and gasoline. Vydyn 21SPF BLK resin permits production of molded parts with good initial color plus good property and color retention when using regrind. This resin is recognized by Underwriters Laboratories and conforms to the requirements of many industrial, federal and military specifications for premium-quality, general-purpose PA66 resins. Vydyn 21SPF BLK resin is internally and externally lubricated for improved machine feed and exceptional mold release. In many applications, the molding cycle can be reduced because parts may be removed from the cavity at higher temperatures. In difficult molds where parts have a tendency to stick in the cavity. Vydyn 21SPF BLK 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. Availability:Asia PacificEuropeNorth America Additive:Lubricant Features:Fast Molding CycleGasoline ResistanceGood Abrasion ResistanceGood Chemical ResistanceGood Mold Release Good ToughnessHigh RigidityHigh StrengthLubricated Oil ResistantSolvent ResistantUses: BearingsBushingsCamsConnectorsElectrical Housings Industrial ApplicationsAppearance: BlackForms: PelletsProcessing Method: Injection MoldingInformation provided by Ascend Performance Materials.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ascend-Performance-Materials-Vydyn-21SPF-BLK-Nylon-66-DAM.php](http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyn-21SPF-BLK-Nylon-66-DAM.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	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, Flow	0.020 cm/cm @Diameter 2.00 mm	0.020 in/in @Diameter 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.020 cm/cm @Diameter 2.00 mm	0.020 in/in @Diameter 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	ISO 527-2
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-2
Elongation at Yield	20 %	20 %	ISO 527-2

Mechanical Properties	Metric	English	Comments
Flexural Strength	30.0 MPa	4350 psi	ISO 178
Flexural Modulus	1.05 GPa	152 ksi	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180
	23.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	10.9 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm <sup>2</sup> @Temperature -30.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eA
	2.30 J/cm <sup>2</sup> @Temperature 23.0 °C	10.9 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

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