

## Ascend Performance Materials Vydyne® 21SPC1 Nylon 66, Conditioned

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

### Material Notes:

Vydyne® 21SPC1 is a general-purpose, improved-flow, lubricated PA66 resin available in natural color. 21SPC1 offers a balanced combination of properties characterized by high strength, rigidity, good toughness, a high melt point, abrasion resistance with good surface lubricity, and excellent resistance to many chemicals. Vydyne 21SPC1 resin has an external lubricant for improved machine feed and an internal lubricant for improved mold release. Typical Applications/End Uses: Include terminal blocks, bearings, bushings, control cams, electrical connectors, housings, cable ties, fasteners, switch components and industrial parts that require chemical resistance, stiffness, wear resistance and rigidity. Availability: Asia Pacific Europe North America Additive: Lubricant Features: Fast Molding Cycle Gasoline Resistance General Purpose Good Abrasion Resistance Good Chemical Resistance Good Mold Release Good Toughness High Rigidity High Strength Lubricated Oil Resistant Solvent Resistant Uses: Bearings Bushings Cams Connectors Housings Industrial Applications Appearance: Natural Color Forms: Pellets Processing Method: Injection Molding Information provided by Ascend Performance Materials.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ascend-Performance-Materials-Vydyne-21SPC1-Nylon-66-Conditioned.php](http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vydyne-21SPC1-Nylon-66-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.2 %	1.2 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	2.4 %	2.4 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	ISO 294-4
	@Diameter 2.00 mm	@Diameter 0.0787 in	
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ISO 294-4
	@Diameter 2.00 mm	@Diameter 0.0787 in	

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	25 %	25 %	ISO 527-2
Tensile Modulus	1.40 GPa	203 ksi	ISO 527-2
Flexural Strength	50.0 MPa	7250 psi	ISO 178
Flexural Modulus	1.50 GPa	218 ksi	ISO 178

Mechanical Properties	7.00 kJ/m <sup>2</sup> Metric	3.33 ft-lb/in <sup>2</sup> English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	20.0 kJ/m <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	ISO 180
	@Temperature 23.0 °C	@Temperature 73.4 °F	
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	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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