Vydyne® 21SPR

PA66 Ascend

Product Texts

Vydyne 21SPR is a general-purpose, unfilled, PA66 resin with an performance lubricant. Designed principally for injection-molding applications, this product offers a 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.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**1.8 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.7 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**3000 / 1700**	MPa	ISO 527
[C] Yield stress	**82 / 53**	MPa	ISO 527
[C] Yield strain	**5 / 25**	%	ISO 527
[C] Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N / N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**4.8 / 8.3**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**3.4 / 4.4**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**262 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**73 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**198 / ***	°C	ISO 75-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**V-2 / ***	class	IEC 60695-11-10

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**1.7 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**2.5 / ***	%	Sim. to ISO 62
[C] Density	**1140 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Additives
Lubricants

Chemical Resistance
General Chemical Resistance, Solvent Resistance, Oil Resistance

Applications
General Purpose

Regional Availability
North America, Europe, Asia Pacific