

Product Texts

Vydyne 25WSP is a weather-resistant injection-molding grade PA66 resin meeting MIL Spec criteria. This resin offers a well-balanced combination of engineering properties characterized by high strength, rigidity, good toughness, high melt point, good surface lubricity and abrasion resistance. 25WSP maintains the chemical resistance typical of PA66 to many chemicals, machine and motor oils, solvents and gasoline.

| Processing/Physical Characteristics | dry / cond | Unit | Test Standard |
|--|------------|------|-----------------|
| ISO Data | | | |
| ^[C] Molding shrinkage, parallel | 1.6 / * | % | ISO 294-4, 2577 |
| ^[C] Molding shrinkage, normal | 1.4 / * | % | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties | dry / cond | Unit | Test Standard |
|--|-------------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 3400 / 1600 | MPa | ISO 527 |
| ^[C] Yield stress | 83 / 77 | MPa | ISO 527 |
| ^[C] Yield strain | 4.5 / 25 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | N / - | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | N / - | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 6 / - | kJ/m ² | ISO 179/1eA |
| ^[C] Charpy notched impact strength, -30°C | 4.8 / - | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | dry / cond | Unit | Test Standard |
|--|------------|-------|-----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 260 / * | °C | ISO 11357-1/-3 |
| ^[C] Temp. of deflection under load, 1.80 MPa | 70 / * | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 0.45 MPa | 225 / * | °C | ISO 75-1/-2 |
| ^[C] Coeff. of linear therm. expansion, parallel | 100 / * | E-6/K | ISO 11359-1/-2 |
| ^[C] Coeff. of linear therm. expansion, normal | 110 / * | E-6/K | ISO 11359-1/-2 |
| ^[C] Burning Behav. at 1.5 mm nom. thickn. | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 1.5 / * | mm | - |
| ^[C] Burning Behav. at thickness h | V-2 / * | class | IEC 60695-11-10 |
| Thickness tested | 0.8 / * | mm | - |
| ^[C] Oxygen index | 23 / * | % | ISO 4589-1/-2 |

[C]: CAMPUS

| Electrical properties | dry / cond | Unit | Test Standard |
|---|------------|-------|---------------|
| ISO Data | | | |
| ^[C] Electric strength | 26 / - | kV/mm | IEC 60243-1 |
| ^[C] Comparative tracking index | 600 / - | - | IEC 60112 |

[C]: CAMPUS

| Other properties | dry / cond | Unit | Test Standard |
|------------------------------------|------------|-------------------|----------------|
| ^[C] Water absorption | 1.2 / * | % | Sim. to ISO 62 |
| ^[C] Humidity absorption | 2.4 / * | % | Sim. to ISO 62 |
| ^[C] Density | 1140 / - | kg/m ³ | ISO 1183 |

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Features

Ductile

Delivery form

Pellets, Black

Chemical Resistance

General Chemical Resistance, Solvent Resistance, Oil Resistance

Additives

Lubricants, Release agent

Applications

Automotive, Electrical and Electronical, General Purpose

Special Characteristics

U.V. stabilized or stable to weather

Regional Availability

North America, Europe, Asia Pacific