## Vydyne® A 25 GF BLACK TT/C
**Ascend Performance Materials Operations LLC - *Polyamide 66***

## General Information

### Product Description

VYDYNE A 25 GF BLACK TT/C is a glass fiber reinforced with 25% glass fiber PA66. It is suitable for extrusion and thermal break applications.

### General

| | |
|---|---|
| Material Status | • Commercial: Active |
| Availability | • Africa & Middle East  • Europe  • North America<br>• Asia Pacific  • Latin America |
| Filler / Reinforcement | • Glass Fiber, 25% Filler by Weight |
| Features | • General Purpose  • Good Rigidity  • High Viscosity<br>• Good Impact Resistance  • Good Stiffness<br>• Good Processability  • Good Toughness |
| Appearance | • Black |
| Forms | • Pellets |
| Processing Method | • Profile Extrusion |
| Resin ID | • PA66-GF25 |

## Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.30 | g/cm³ | ISO 1183 |
| Molding Shrinkage | | | ISO 294-4 |
|   Across Flow : 73°F, 0.0787 in | 0.90 | % | |
|   Flow : 73°F, 0.0787 in | 0.50 | % | |
| Water Absorption (Equilibrium, 73°F, 50% RH) | 1.4 | % | ISO 62 |

| Mechanical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Tensile Modulus (73°F) | 1.13E+6 | psi | ISO 527-1 |
| Tensile Stress (Break, 73°F) | 19600 | psi | ISO 527-2 |
| Tensile Strain (Break, 73°F) | 3.5 | % | ISO 527-2 |

| Impact | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Notched Izod Impact Strength (73°F) | 4.8 | ft·lb/in² | ISO 180/1A |
| Unnotched Izod Impact Strength (73°F) | 29 | ft·lb/in² | ISO 180/1U |

| Thermal | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Deflection Temperature Under Load (66 psi, Unannealed) | 464 | °F | ISO 75-2/B |
| Deflection Temperature Under Load (264 psi, Unannealed) | 446 | °F | ISO 75-2/A |
| Melting Temperature | 500 | °F | ISO 11357-3 |

| Electrical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Comparative Tracking Index (0.118 in) | 575 | V | IEC 60112 |

| Flammability | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Flame Rating | | | UL 94 |
|   0.031 in | | HB | |
|   0.06 in | | HB | |
| Glow Wire Flammability Index (0.0079 in) | 1200 | °F | IEC 60695-2-12 |

## Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 185 to 203 | °F |
| Drying Time | > 3.0 | hr |

| Extrusion | Nominal Value | Unit |
|---|---|---|
| Cylinder Zone 1 Temp. | 491 to 527 | °F |
| Cylinder Zone 2 Temp. | 491 to 545 | °F |

| | | |
|---|---|---|
| Cylinder Zone 3 Temp. | 491 to 563 | °F |
| Cylinder Zone 4 Temp. | 491 to 572 | °F |
| Cylinder Zone 5 Temp. | 491 to 590 | °F |
| Melt Temperature | 491 to 527 | °F |
| Die Temperature | 491 to 527 | °F |

## Notes

[1] Typical properties: these are not to be construed as specifications.