

## Vydyne® 21A1

Ascend Performance Materials Operations LLC - Polyamide 66

### General Information

#### Product Description

Vydyne 21A1 is general-purpose PA66 resin. It is offered in natural and designed for extrusion-compounding applications. 21A1 provides the chemical resistance typical of PA66 to many chemicals, machine and motor oils, solvents and gasoline. 21A1 exhibits good initial color and color retention after compounding.

#### General

|                 |                      |                        |                     |
|-----------------|----------------------|------------------------|---------------------|
| Material Status | • Commercial: Active |                        |                     |
| Availability    | • Asia Pacific       | • Europe               | • North America     |
| Features        | • Chemical Resistant | • General Purpose      | • Oil Resistant     |
|                 | • Gasoline Resistant | • Good Color Stability | • Solvent Resistant |
| Agency Ratings  | • ASTM D4066 PA0111  | • EU 10/2011           | • SAE J1639 PA0121  |
|                 | • ASTM D6779 PA0111  | • EU 2023/2006         |                     |
|                 | • EC 1935/2004       | • FDA 21 CFR 177.1500  |                     |
| Appearance      | • Natural Color      |                        |                     |
| Forms           | • Pellets            |                        |                     |
| Resin ID        | • PA66               |                        |                     |

### Properties <sup>1</sup>

| Physical            | Nominal Value | Unit              | Test Method |
|---------------------|---------------|-------------------|-------------|
| Density             | 1.14          | g/cm <sup>3</sup> | ISO 1183    |
| Relative Viscosity  |               |                   |             |
| -- <sup>2</sup>     | 48.0          |                   | ASTM D789   |
| -- <sup>3</sup>     | 140           |                   | ISO 307     |
| Moisture Content    | < 0.40        | %                 | ASTM D6869  |
| Thermal             | Nominal Value | Unit              | Test Method |
| Melting Temperature | 500           | °F                | ISO 11357-3 |
| Optical             | Nominal Value | Unit              | Test Method |
| Yellowness Index    | 2.5           | YI                | ASTM D1925  |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Formic Acid

<sup>3</sup> Sulphuric Acid

