

## Ascend Performance Materials Vdyne® 64C-R Nylon 66, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Extruded

### Material Notes:

Vdyne® 64C-R is a medium-viscosity PA66 resin suitable for injection-molding, extrusion and compounding applications. It is available in natural color only. Vdyne 64C-R resin offers high strength, rigidity and toughness over a broad range of demanding applications and good fluid resistance to a wide variety of chemicals, solvents and oils. Typical Applications/End Uses: Typical uses include packaging films, monofilaments, bristles, rods, tubing and sheet. Availability: Asia Pacific Europe North America Features: General Purpose Gasoline Resistance Good Chemical Resistance Good Melt Strength Good Toughness High Rigidity High Strength Medium Viscosity Oil Resistant Solvent Resistant Uses: Cast Film Film Food Packaging Industrial Applications Monofilaments Rods Sheet Tubing Appearance: Natural Color Forms: Pellets Processing Method: Injection Molding and Extrusion Information provided by Ascend Performance Materials.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ascend-Performance-Materials-Vdyne-64C-R-Nylon-66-DAM.php](http://www.lookpolymers.com/polymer_Ascend-Performance-Materials-Vdyne-64C-R-Nylon-66-DAM.php)

| Physical Properties                | Metric                   | English                  | Comments       |
|------------------------------------|--------------------------|--------------------------|----------------|
| Density                            | 1.14 g/cc                | 0.0412 lb/in³            | ISO 1183       |
| Water Absorption                   | 8.5 %<br>@Time 86400 sec | 8.5 %<br>@Time 24.0 hour | ISO 62         |
| Moisture Absorption at Equilibrium | 2.5 %                    | 2.5 %                    | 50% RH; ISO 62 |

| Thermal Properties              | Metric                                                               | English                                                                 | Comments    |
|---------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------|-------------|
| CTE, linear, Parallel to Flow   | 10.0 µm/m-°C<br>@Thickness 2.00 mm,<br>Temperature 23.0 -<br>55.0 °C | 5.56 µin/in-°F<br>@Thickness 0.0787 in,<br>Temperature 73.4 - 131<br>°F | ISO 11359-2 |
| CTE, linear, Transverse to Flow | 10.0 µm/m-°C<br>@Thickness 2.00 mm,<br>Temperature 23.0 -<br>55.0 °C | 5.56 µin/in-°F<br>@Thickness 0.0787 in,<br>Temperature 73.4 - 131<br>°F | ISO 11359-2 |
| Melting Point                   | 260 °C                                                               | 500 °F                                                                  | ISO 11357-3 |
| UL RTI, Electrical              | 130 °C<br>@Thickness 1.50 mm                                         | 266 °F<br>@Thickness 0.0591 in                                          | UL 746      |
|                                 | 130 °C<br>@Thickness 3.00 mm                                         | 266 °F<br>@Thickness 0.118 in                                           | UL 746      |
| UL RTI, Mechanical with Impact  | 75.0 °C<br>@Thickness 1.50 mm                                        | 167 °F<br>@Thickness 0.0591 in                                          | UL 746      |
|                                 | 75.0 °C                                                              | 167 °F                                                                  |             |

| Thermal Properties                | Metric             | English              | Comments                             |
|-----------------------------------|--------------------|----------------------|--------------------------------------|
| UL RTI, Mechanical without Impact | 85.0 °C            | 185 °F               | UL 746                               |
|                                   | @Thickness 1.50 mm | @Thickness 0.0591 in |                                      |
|                                   | 85.0 °C            | 185 °F               | UL 746                               |
|                                   | @Thickness 3.00 mm | @Thickness 0.118 in  |                                      |
| Flammability, UL94                | V-2                | V-2                  |                                      |
|                                   | @Thickness 1.50 mm | @Thickness 0.0591 in |                                      |
|                                   | V-2                | V-2                  |                                      |
|                                   | @Thickness 3.00 mm | @Thickness 0.118 in  |                                      |
| Glow Wire Test                    | 700 °C             | 1290 °F              | Ignition Temperature; IEC 60695-2-13 |
|                                   | @Thickness 1.50 mm | @Thickness 0.0591 in |                                      |
|                                   | 700 °C             | 1290 °F              | Ignition Temperature; IEC 60695-2-13 |
|                                   | @Thickness 3.00 mm | @Thickness 0.118 in  |                                      |
|                                   | 800 °C             | 1470 °F              | Flammability Index; IEC 60695-2-12   |
|                                   | @Thickness 1.50 mm | @Thickness 0.0591 in |                                      |
|                                   | 850 °C             | 1560 °F              | Flammability Index; IEC 60695-2-12   |
|                                   | @Thickness 3.00 mm | @Thickness 0.118 in  |                                      |

| Electrical Properties      | Metric              | English              | Comments  |
|----------------------------|---------------------|----------------------|-----------|
| Volume Resistivity         | 1.00e+14 ohm-cm     | 1.00e+14 ohm-cm      | IEC 60093 |
|                            | @Thickness 0.750 mm | @Thickness 0.0295 in |           |
| Dielectric Strength        | 23.0 kV/mm          | 584 kV/in            | IEC 60243 |
|                            | @Thickness 1.00 mm  | @Thickness 0.0394 in |           |
| Arc Resistance             | 60 - 119 sec        | 60 - 119 sec         | ASTM D495 |
|                            | @Thickness 3.00 mm  | @Thickness 0.118 in  |           |
| Comparative Tracking Index | 600 V               | 600 V                | IEC 60112 |
|                            | @Thickness 3.00 mm  | @Thickness 0.118 in  |           |
| Hot Wire Ignition, HWI     | 7.0 - 14 sec        | 7.0 - 14 sec         | UL 746    |
|                            | @Thickness 1.50 mm  | @Thickness 0.0591 in |           |
|                            | 15 - 29 sec         | 15 - 29 sec          | UL 746    |
|                            | @Thickness 3.00 mm  | @Thickness 0.118 in  |           |

| Electrical Properties<br>High Amp Arc Ignition, HAI | $\geq 120$ arcs<br>Metric | $\geq 120$ arcs<br>English | Comments<br>UL 746 |
|-----------------------------------------------------|---------------------------|----------------------------|--------------------|
|                                                     | @Thickness 1.50 mm        | @Thickness 0.0591 in       |                    |
|                                                     | $\geq 120$ arcs           | $\geq 120$ arcs            | UL 746             |
|                                                     | @Thickness 3.00 mm        | @Thickness 0.118 in        |                    |
| High Voltage Arc-Tracking Rate, HVTR                | 0.000 - 10.0 mm/min       | 0.000 - 0.394 in/min       | UL 746             |

| Processing Properties | Metric         | English       | Comments               |
|-----------------------|----------------|---------------|------------------------|
| Zone 1                | 250 - 295 °C   | 482 - 563 °F  |                        |
| Zone 2                | 250 - 295 °C   | 482 - 563 °F  |                        |
| Zone 3                | 250 - 295 °C   | 482 - 563 °F  |                        |
| Zone 4                | 250 - 295 °C   | 482 - 563 °F  |                        |
| Zone 5                | 250 - 295 °C   | 482 - 563 °F  |                        |
| Die Temperature       | 270 - 295 °C   | 518 - 563 °F  |                        |
| Melt Temperature      | 270 - 295 °C   | 518 - 563 °F  |                        |
| Roll Temperature      | 20.0 - 80.0 °C | 68.0 - 176 °F | Chill Roll Remperature |

| Descriptive Properties     | Value    | Comments |
|----------------------------|----------|----------|
| Blow Film Bath Temperature | 20-80°C  |          |
| Melt Pressure              | 3-17 MPa |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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