

## Radici Radilon® S RV350 (dry) Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Radilon® S is a range of polyamide 6 (PA6) products obtained through the polymerization of caprolactam and used for injection, extrusion and blow-molding. Information provided by Radici group.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Radici-Radilon-S-RV350-dry-Nylon-6.php](http://www.lookpolymers.com/polymer_Radici-Radilon-S-RV350-dry-Nylon-6.php)

| Physical Properties                | Metric    | English   | Comments                            |
|------------------------------------|-----------|-----------|-------------------------------------|
| Specific Gravity                   | 1.38 g/cc | 1.38 g/cc |                                     |
| Water Absorption                   | 6.4 %     | 6.4 %     |                                     |
| Moisture Absorption at Equilibrium | 1.8 %     | 1.8 %     |                                     |
| Viscosity Measurement              | 145       | 145       | cm <sup>3</sup> /g Viscosity Number |

| Mechanical Properties     | Metric                 | English                    | Comments |
|---------------------------|------------------------|----------------------------|----------|
| Tensile Strength at Break | 185 MPa                | 26800 psi                  |          |
| Elongation at Break       | 3.8 %                  | 3.8 %                      |          |
| Tensile Modulus           | 11.0 GPa               | 1600 ksi                   |          |
| Charpy Impact Unnotched   | 8.50 J/cm <sup>2</sup> | 40.4 ft-lb/in <sup>2</sup> |          |
|                           | @Temperature -30.0 °C  | @Temperature -22.0 °F      |          |
| Charpy Impact Unnotched   | 10.0 J/cm <sup>2</sup> | 47.6 ft-lb/in <sup>2</sup> |          |
|                           | @Temperature 23.0 °C   | @Temperature 73.4 °F       |          |
| Charpy Impact, Notched    | 1.20 J/cm <sup>2</sup> | 5.71 ft-lb/in <sup>2</sup> |          |
|                           | @Temperature -30.0 °C  | @Temperature -22.0 °F      |          |
| Charpy Impact, Notched    | 1.40 J/cm <sup>2</sup> | 6.66 ft-lb/in <sup>2</sup> |          |
|                           | @Temperature 23.0 °C   | @Temperature 73.4 °F       |          |

| Thermal Properties                          | Metric | English | Comments |
|---|--------|---------|----------|
| Melting Point                               | 220 °C | 428 °F  |          |
| Deflection Temperature at 0.46 MPa (66 psi) | 215 °C | 419 °F  |          |
| Deflection Temperature at 1.8 MPa (264 psi) | 205 °C | 401 °F  |          |

| Thermal Properties | 210 °C<br>Metric    | 410 °F<br>English    | Comments |
|--------------------|---------------------|----------------------|----------|
|                    | @Load 5.10 kg       | @Load 11.2 lb        |          |
| Flammability, UL94 | HB                  | HB                   |          |
|                    | @Thickness 1.60 mm  | @Thickness 0.0630 in |          |
|                    | HB                  | HB                   |          |
|                    | @Thickness 0.800 mm | @Thickness 0.0315 in |          |

| Electrical Properties | Metric                            | English                           | Comments |
|-----------------------|-----------------------------------|-----------------------------------|----------|
| Volume Resistivity    | $\geq 1.00 \times 10^{11}$ ohm-cm | $\geq 1.00 \times 10^{11}$ ohm-cm |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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