

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

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### 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-LHS-dry-Nylon-6.php](http://www.lookpolymers.com/polymer_Radici-Radilon-S-LHS-dry-Nylon-6.php)

| Physical Properties                | Metric    | English   | Comments                            |
|------------------------------------|-----------|-----------|-------------------------------------|
| Specific Gravity                   | 1.14 g/cc | 1.14 g/cc |                                     |
| Water Absorption                   | 10.2 %    | 10.2 %    |                                     |
| Moisture Absorption at Equilibrium | 3.1 %     | 3.1 %     |                                     |
| Viscosity Measurement              | 125       | 125       | cm <sup>3</sup> /g Viscosity Number |

| Mechanical Properties   | Metric                  | English                    | Comments |
|-------------------------|-------------------------|----------------------------|----------|
| Tensile Strength, Yield | 80.0 MPa                | 11600 psi                  |          |
| Elongation at Break     | 25 %                    | 25 %                       | Nominal  |
| Elongation at Yield     | 4.0 %                   | 4.0 %                      |          |
| Tensile Modulus         | 3.30 GPa                | 479 ksi                    |          |
| Charpy Impact Unnotched | NB                      | NB                         |          |
|                         | @Temperature 23.0 °C    | @Temperature 73.4 °F       |          |
| Charpy Impact, Notched  | NB                      | NB                         |          |
|                         | @Temperature -30.0 °C   | @Temperature -22.0 °F      |          |
| Charpy Impact, Notched  | 0.430 J/cm <sup>2</sup> | 2.05 ft-lb/in <sup>2</sup> |          |
|                         | @Temperature -30.0 °C   | @Temperature -22.0 °F      |          |
| Charpy Impact, Notched  | 0.700 J/cm <sup>2</sup> | 3.33 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) | 170 °C | 338 °F  |          |
| Deflection Temperature at 1.8 MPa           |        |         |          |

| (264 psi)<br>Thermal Properties | 60.0 °C<br>Metric          | 140 °F<br>English           | Comments |
|---------------------------------|----------------------------|-----------------------------|----------|
| Vicat Softening Point           | 190 °C<br>@Load 5.10 kg    | 374 °F<br>@Load 11.2 lb     | 50°C/h   |
| Flammability, UL94              | V-2<br>@Thickness 1.60 mm  | V-2<br>@Thickness 0.0630 in |          |
|                                 | V-2<br>@Thickness 0.800 mm | V-2<br>@Thickness 0.0315 in |          |

| Electrical Properties | Metric             | English            | Comments |
|-----------------------|--------------------|--------------------|----------|
| Volume Resistivity    | >= 1.00e+11 ohm-cm | >= 1.00e+11 ohm-cm |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China