

## Radici Radilon® S RCV3515 (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-RCV3515-dry-Nylon-6.php](http://www.lookpolymers.com/polymer_Radici-Radilon-S-RCV3515-dry-Nylon-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	
Water Absorption	7.3 %	7.3 %	
Viscosity Measurement	140	140	cm <sup>3</sup> /g Viscosity Number

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	
Elongation at Break	3.2 %	3.2 %	
Tensile Modulus	7.35 GPa	1070 ksi	
Charpy Impact Unnotched	5.20 J/cm <sup>2</sup>	24.7 ft-lb/in <sup>2</sup>	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	5.50 J/cm <sup>2</sup>	26.2 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.950 J/cm <sup>2</sup>	4.52 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)	190 °C	374 °F	
Vicat Softening Point	210 °C	410 °F	50°C/h
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments
	@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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