

Radici Radilon® S RV150 (cond.) 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-RV150-cond-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	(Dry)
Water Absorption	8.8 %	8.8 %	initially dry
Moisture Absorption at Equilibrium	2.4 %	2.4 %	initially dry
Viscosity Measurement	145	145	cm ³ /g Viscosity Number

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	77.0 MPa	11200 psi	
Elongation at Break	9.5 %	9.5 %	Nominal
Elongation at Yield	4.1 %	4.1 %	
Tensile Modulus	3.75 GPa	544 ksi	
Charpy Impact Unnotched	5.40 J/cm ²	25.7 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	(Dry)

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	

Comparative Tracking Index Electrical Properties	550 V Metric	550 V English	Comments
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