

Radici Radilon® S CP300 (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-CP300-cond-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	(Dry)
Water Absorption	7.3 %	7.3 %	initially dry
Moisture Absorption at Equilibrium	2.1 %	2.1 %	initially dry
Viscosity Measurement	140	140	cm ³ /g Viscosity Number

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	
Elongation at Break	35 %	35 %	Nominal
Elongation at Yield	19 %	19 %	
Tensile Modulus	2.35 GPa	341 ksi	
Charpy Impact Unnotched	6.80 J/cm ²	32.4 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.270 J/cm ²	1.28 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.640 J/cm ²	3.05 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	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00×10^{14} ohm	1.00×10^{14} ohm	
Comparative Tracking Index	550 V	550 V	

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