

Radici Radilon® S CP400 (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-CP400-dry-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	
Water Absorption	5.8 %	5.8 %	
Moisture Absorption at Equilibrium	1.9 %	1.9 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	
Elongation at Break	8.5 %	8.5 %	
Tensile Modulus	6.25 GPa	906 ksi	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	8.00 J/cm ²	38.1 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.280 J/cm ²	1.33 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.420 J/cm ²	2.00 ft-lb/in ²	
	@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)	195 °C	383 °F	
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	
Vicat Softening Point	205 °C	401 °F	50°C/h
	@Load 5.10 kg	@Load 11.2 lb	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@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	

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