

Radici Radilon® CS 35FL (dry) Nylon 6/66

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

Radilon® CS is a range of polyamide 6/66 copolymers obtained through the polymerization of caprolactam and hexamethylenediamine salt with adipic acid. Information provided by Radici group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Radici-Radilon-CS-35FL-dry-Nylon-666.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	3.0 %	3.0 %	
Viscosity Measurement	205	205	cm³/g Viscosity Number

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	4.0 %	4.0 %	
Tensile Modulus	3.40 GPa	493 ksi	
Charpy Impact Unnotched	NB	NB	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.580 J/cm²	2.76 ft-lb/in²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.600 J/cm²	2.86 ft-lb/in²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	210 °C	410 °F	
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	65.0 °C Metric	149 °F English	Comments
Vicat Softening Point	70.0 °C @Load 5.10 kg	158 °F @Load 11.2 lb	50°C/h
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	

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

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