

Radici Radilon® A RV300R (dry) Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Radilon® A is a range of polyamide 66 (PA66) products obtained through the polymerization of hexamethylenediamine and adipic acid, 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-A-RV300R-dry-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	
Water Absorption	7.0 %	7.0 %	
Moisture Absorption at Equilibrium	1.7 %	1.7 %	
Viscosity Measurement	145	145	cm ³ /g Viscosity Number

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	185 MPa	26800 psi	
Elongation at Break	3.6 %	3.6 %	
Tensile Modulus	9.70 GPa	1410 ksi	
Charpy Impact Unnotched	7.50 J/cm ²	35.7 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	1.20 J/cm ²	5.71 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	

Thermal Properties	245 °C Metric	473 °F English	Comments
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@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	$\geq 1.00e+11$ ohm-cm	$\geq 1.00e+11$ ohm-cm	

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