

Radici Radiflam® S RV250FR (cond.) Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

Material Notes:

Radiflam® S is a range of flame retardant polyamides 6 (PA 6) used for injection molding and extrusion for all applications where high fire resistance is required. Information provided by Radici group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Radici-Radiflam-S-RV250FR-cond-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	(Dry)
Water Absorption	2.5 %	2.5 %	initially dry
Moisture Absorption at Equilibrium	1.1 %	1.1 %	initially dry

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	
Elongation at Break	1.8 %	1.8 %	
Tensile Modulus	11.0 GPa	1600 ksi	
Charpy Impact Unnotched	1.90 J/cm ²	9.04 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	3.70 J/cm ²	17.6 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.680 J/cm ²	3.24 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	(Dry)
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	
Vicat Softening Point	205 °C	401 °F	50°C/h
	@Load 5.10 kg	@Load 11.2 lb	

Thermal Properties	Metric	English	Comments
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	600 V	600 V	

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