

Radici Radiflam® S RV300AE (dry) Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% 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-RV300AE-dry-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.60 g/cc	1.60 g/cc	
Water Absorption	3.2 %	3.2 %	
Moisture Absorption at Equilibrium	0.90 %	0.90 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	
Elongation at Break	1.7 %	1.7 %	
Tensile Modulus	12.3 GPa	1780 ksi	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.40 J/cm ²	20.9 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.10 J/cm ²	5.23 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@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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