

Radici Radiflam® A AE (dry) Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Unreinforced, Flame Retardant

Material Notes:

Radiflam® A is a range of flame retardant polyamides 66 (PA 66) 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-A-AE-dry-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	
Water Absorption	6.2 %	6.2 %	
Moisture Absorption at Equilibrium	1.6 %	1.6 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	
Elongation at Break	5.1 %	5.1 %	
Tensile Modulus	3.55 GPa	515 ksi	
Charpy Impact Unnotched	NB	NB	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.350 J/cm ²	1.67 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)	210 °C	410 °F	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	
Vicat Softening Point	220 °C	428 °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	
	V-0	V-0	
	@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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