

Radici Radilon® A ERV3012 (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-ERV3012-dry-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	
Water Absorption	6.7 %	6.7 %	
Moisture Absorption at Equilibrium	1.8 %	1.8 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	
Elongation at Break	4.2 %	4.2 %	
Tensile Modulus	5.30 GPa	769 ksi	
Charpy Impact Unnotched	6.80 J/cm ²	32.4 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.00 J/cm ²	33.3 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.950 J/cm ²	4.52 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	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)	240 °C	464 °F	
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	
Vicat Softening Point	225 °C	437 °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	
	HB	HB	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+11$ ohm-cm	$\geq 1.00\text{e}+11$ ohm-cm	

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