

Radici Radilon® A ESL128 (dry) Nylon 66

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

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-ESL128-dry-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	
Water Absorption	7.6 %	7.6 %	
Moisture Absorption at Equilibrium	2.0 %	2.0 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	4.6 %	4.6 %	
Tensile Modulus	2.30 GPa	334 ksi	
Charpy Impact Unnotched	NB	NB	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.10 J/cm²	9.99 ft-lb/in²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.80 J/cm²	27.6 ft-lb/in²	
	@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)	140 °C	284 °F	
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	

Thermal Properties	210 °C Metric	410 °F English	Comments
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 16.0 mm	@Thickness 0.630 in	
	HB	HB	
	@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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