

## Radici Radilon® S ESL128 (cond.) Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### Material Notes:

Radilon® S is a range of polyamide 6 (PA6) products obtained through the polymerization of caprolactam 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-S-ESL128-cond-Nylon-6.php](http://www.lookpolymers.com/polymer_Radici-Radilon-S-ESL128-cond-Nylon-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	(Dry)
Water Absorption	9.0 %	9.0 %	initially dry
Moisture Absorption at Equilibrium	2.6 %	2.6 %	initially dry

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	35 %	35 %	
Tensile Modulus	0.700 GPa	102 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	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	13.0 J/cm <sup>2</sup>	61.9 ft-lb/in <sup>2</sup>	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	(Dry)

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	

Electrical Properties Comparative Tracking Index	Metric 500 V	English 500 V	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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