

# Radilon® S LRV300LUK 100 NT

## Radici Group High Performance Polymers - Polyamide 6

### General Information

#### Product Description

PA6 30% glass fiber reinforced injection moulding grade. Lubricated, high flowability. Improved UV resistance. Natural colour.

Suitable for parts requiring high stiffness and good mechanical resistance, which must also resist to outdoor exposure.

#### General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Lubricant
Features	• Good Weather Resistance • High Stiffness • High Flow • Lubricated • UV Resistant
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA6-T GF30

### Properties <sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm <sup>3</sup>	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	7.5	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.39E+6	928000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	26100	16000	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.4	4.5	%	ISO 527-2/1A/5
Flexural Modulus <sup>2</sup>	1.23E+6	--	psi	ISO 178
Flexural Stress <sup>2</sup>	37700	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	5.2	--	ft·lb/in <sup>2</sup>	
73°F	6.2	9.5	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	33	--	ft·lb/in <sup>2</sup>	
73°F	43	52	ft·lb/in <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	392	--	°F	
Vicat Softening Temperature	410	--	°F	ISO 306/B50
Melting Temperature <sup>3</sup>	428	--	°F	ISO 11357-3

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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity <sup>4</sup>	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity <sup>4</sup>	1.0E+15	1.0E+13	ohms·cm	IEC 62631-3-1
Comparative Tracking Index Solution A	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.118 in)	0.0	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94
Glow Wire Flammability Index 0.08 in	1290	--	°F	IEC 60695-2-12

### Processing Information

Injection	Dry	Unit
Drying Temperature - Desiccant Dryer	176	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Dew Point - Desiccant Dryer	< -4	°F
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	464 to 536	°F
Mold Temperature	176 to 194	°F
Injection Rate	Moderate-Fast	

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.079 in/min

<sup>3</sup> 10°C/min

<sup>4</sup> 500V