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			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Lubricant		
Features	• Good Weather Resistance • High Flow	• High Stiffness • Lubricated	• UV Resistant
Uses	• Automotive Applications		
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• GM GMW3029P-PA6-GF30H	• IMDS ID 164255973 Color: 100 Natural	
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6-T GF30		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm³	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	7.5	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	2.0	--	%	ISO 62
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 [2]	1.23E+6	--	psi	ISO 178
Flexural Stress [2]	37700	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	5.2	--	ft·lb/in²	
73°F	6.2	9.5	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	33	--	ft·lb/in²	
73°F	43	52	ft·lb/in²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	392	--	°F	ISO 75-2/Af
Vicat Softening Temperature	410	--	°F	ISO 306/B50
Melting Temperature [3]	428	--	°F	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity [4]	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity [4]	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

[1] Typical properties: these are not to be construed as specifications.

[2] 0.079 in/min

[3] 10°C/min

[4] 500V