Radilon® S URV600L 100 NAT 4154

Polyamide 6

Radici Plastics

Message:

PA6 60% glass fiber reinforced injection moulding grade. Very high flowability. Natural colour.
Suitable for parts requiring very high stiffness and high mechanical resistance, as in case of metal replacement applications.
ISO 1043 : PA6 GF60

General Information				
Filler / Reinforcement	Glass Fiber,60% Filler by Weight			
Features	High Flow High Stiffness			
Uses	Metal Replacement			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA6 GF60			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.69	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	4.4	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.1	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	21400	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	255	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.1	--	%	ISO 527-2/1A/5
Flexural Modulus [1]	19300	--	MPa	ISO 178
Flexural Stress [2]	400	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Unnotched Impact Strength (23°C)	90	--	kJ/m²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	215	--	°C	ISO 75-2/Af
Melting Temperature [3]	220	--	°C	ISO 11357
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093

Comparative Tracking Index	650	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	0.0	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature - Desiccant Dryer	80.0		°C	
Drying Time - Desiccant Dryer	2.0 to 4.0		hr	
Dew Point - Desiccant Dryer	< -20.0		°C	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	240 to 280		°C	
Mold Temperature	80.0 to 90.0		°C	
Injection Rate	Moderate-Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China