

Radilon® S ERV2510 100 NAT

Polyamide 6

Radici Plastics

Message:

PA6 15% glass fiber reinforced injection moulding grade. Toughened. Natural colour.

Suitable for parts requiring good impact strength along with enhanced stiffness.

ISO 1043 : PA6-I GF15

General Information				
Filler / Reinforcement	Glass Fiber,15% Filler by Weight			
Features	Good Impact Resistance			
	Good Stiffness			
	Good Toughness			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA6-I GF15			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.19	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	6.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.9	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5000	--	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	100	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	4.5	--	%	ISO 527-2/1A/5
Flexural Modulus ¹	4500	--	MPa	ISO 178
Flexural Stress ²	150	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	--	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	185	--	°C	ISO 75-2/Af
Vicat Softening Temperature	205	--	°C	ISO 306/B50
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	600	--	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
Glow Wire Flammability Index (2.00 mm)	650	--	°C	IEC 60695-2-12
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			

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