

SHIN-LFT SPL4000

Polypropylene

Shinil Chemical Industry Co., Ltd.

Message:

Shinil has recently developed long glass fiber reinforced compound with various thermoplastics, mainly PP, Nylon and Polyesters. This products are designed to offer excellent strength and toughness with excellent thermal and dimensional stability. Shinil's LFT compound can be used to replace metal specially to make door trim, modulus, washing machine tubs, front end module, fan shroud.

General Information	
Filler / Reinforcement	Long glass fiber
Features	Good dimensional stability
	High strength
	Thermal stability, good
	Good toughness
Uses	Metal substitution
	Application in Automobile Field
	Car exterior decoration

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.25	g/cm ³	ISO 1183
Molding Shrinkage	0.20 - 0.60	%	Internal method
Ash Content	38 - 42	%	ISO 3451-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	MPa	ISO 527-2/5
Tensile Stress (Break)	120	MPa	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	48	kJ/m ²	ISO 179/1eA
23°C	61	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	°C	ISO 75-2/A
Melting Temperature (DSC) ¹	165	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ²	1.0E+16	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	220 - 230	°C	
NOTE			
1.	10°C/min		

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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

