

TUFNYL® SGF 40 ST NATURAL

Polyamide 6

SRF Ltd.

Message:

Polyamide 6, 40 % Glass filled, super tough material for injection molding

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Ultra High Toughness		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.25	%	Internal Method
Water Absorption (Equilibrium)	0.80	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	90		
R-Scale	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	115	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	6000	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	137	J/m	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	200	°C	ISO 75-2/B
1.8 MPa, Unannealed	175	°C	ISO 75-2/A
Melting Temperature	210	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.20	%	
Processing (Melt) Temp	280 to 300	°C	
Mold Temperature	40.0 to 80.0	°C	

Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

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Recommended distributors for this material

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