TUFNYL® SGF 45 GREY

Polyamide 6

SRF Ltd.

Message:

Polyamide 6, 15% Glass fiber reinforced, grey pigmented material for general purpose injection molding

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	General Purpose		
Uses	General Purpose		
Appearance	Grey		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.50	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.25	%	Internal Method
Water Absorption (Equilibrium)	0.40	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	95		
R-Scale	125		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	180	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	10000	MPa	ISO 178
Flexural Stress	285	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	98.1	J/m	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	> 210	°C	ISO 75-2/B
1.8 MPa, Unannealed	> 210	°C	ISO 75-2/A
Melting Temperature	220	°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
Dielectric Strength	24	kV/mm	ASTM D149
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	

Recommended distributors for this material

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