OnForce™ LFT LF6600-5013 Grey

Polyamide 66

PolyOne Corporation

Message:

Polyvan's long fiber thermoplastic polymers are used in situations where high hardness and good impact resistance are required, such as metal substitution or other structural applications. These products exhibit enhanced physical and mechanical properties compared to staple fiber products. Its advantages include improved impact strength, elasticity and material strength in different temperature ranges. In addition, compared with traditional high-filled short fiber products, long fiber thermoplastic polymers show improved properties in terms of creep and fatigue resistance, improved dimensional stability and unique surface finish.

General Information			
Filler / Reinforcement	Long glass fiber		
Appearance	Grey		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.68	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	22000	MPa	ISO 527-2
Tensile Stress (Break)	240	MPa	ISO 527-2
Tensile Strain (Break)	1.6	%	ISO 527-2
Flexural Modulus	15000	MPa	ISO 178
Flexural Stress	300	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	16	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	60	kJ/m²	ISO 179
Dart Drop Impact	113	J	ASTM D3029
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	290 - 320	°C	
Mold Temperature	90.0	°C	
Injection Rate	Slow-Moderate		
Back Pressure	5.00	MPa	

Injection instructions

LFT compounds can be processed using equipment similar to that used for short fiber products. The mechanical properties of finished parts depend greatly on the length of the fibers in the molded part; therefore processing conditions must be set carefully in order to minimize fiber breakage. A "low shear process" is advised, with low back pressure, low screw speed and low-to-medium injection speed.

Recommended distributors for this material

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