

# OnForce™ LFT LF6600-5017 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	1.56	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16700	MPa	ISO 527-2
Tensile Stress (Break)	226	MPa	ISO 527-2
Tensile Strain (Break)	1.8	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Dart Drop Impact	110	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.

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## Recommended distributors for this material

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