OnForce™ LFT LF5200-5017 Grey

Polyolefin

PolyOne Corporation

Message:

Edgetek® The engineering thermoplastic polymer product portfolio includes a series of standard and customizable high-performance materials. The combination includes high-temperature resistant materials for high-temperature working environments, and high-modulus/structural materials for load-bearing, high-strength applications and flame-retardant products. These polymers are made by mixing engineering thermoplastic resins with different reinforcing additives, such as carbon fiber, glass fiber and glass beads.

General Information			
Filler / Reinforcement	Long carbon fiber		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.990	g/cm³	ISO 1183
Molding Shrinkage [1]	0.30	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	12000	MPa	ISO 527-2
Tensile Stress (Break)	180	MPa	ISO 527-2
Tensile Strain (Break)	1.7	%	ISO 527-2
Flexural Modulus	9500	MPa	ISO 178
Flexural Stress	195	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	9.5	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	35	kJ/m²	ISO 179
Dart Drop Impact	45.0	J	ASTM D5420
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	210 - 230	°C	
Mold Temperature	60	°C	
Injection Rate	Slow-Moderate		
Back Pressure	1.00	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.

NOTE	
1.	Measured on a tensile specimen. Actual mold shrinkage values are highly dependant on part geometry, mold configuration, and processingconditions.

Recommended distributors for this material

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