OnForce™ LFT NY-30LGF/000 HS NATURAL

Polyamide 6

PolyOne Corporation

Message:

PolyOne's Long Fiber Thermoplastic (LFT) compounds are formulated for demanding applications which require high stiffness and good impact such as metal replacement or other structural applications. These products exhibit enhanced physical and mechanical properties versus standard short fiber products. Benefits of LFT compounds include improved impact strength, elastic modulus, and material strength across wide temperature ranges from subambient to highly elevated. Furthermore, LFT compounds have been shown to offer improved performance in the areas of creep and fatigue performance, improved dimensional stability, and exhibit an exceptional surface finish when compared to traditional highly filled short fiber products.

General Information			
Filler / Reinforcement	Long Glass Fiber,30% Filler by Weight		
Features	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.35	g/cm³	ISO 1183
Molding Shrinkage	0.20	%	ISO 294-4
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8350	MPa	ISO 527-2
Tensile Stress (Break)	170	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	8200	MPa	ISO 178
Flexural Stress	260	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	15	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	85	kJ/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	220	°C	ISO 75-2/A
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	90.0	°C	
Injection Rate	Slow-Moderate		
Back Pressure	5.00	MPa	

Recommended distributors for this material

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