

# OnForce™ LFT LFT PP-30 LGF/000 1001

Polypropylene Homopolymer

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		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6300	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	6100	MPa	ISO 178
Flexural Stress	145	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	22	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	145	°C	ISO 75-2/A
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	210 to 221	°C	
Mold Temperature	65.6	°C	

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