

Complet® LGF40-PA6

Polyamide 6

PlastiComp, Inc.

Message:

Complet® LGF40-PA6 is a polyamide 6 (nylon 6) product, which contains 40% long glass fibers as filler. It is available in North America, Europe or Asia Pacific.

General Information			
Filler / Reinforcement	Long glass fiber, 40% filler by weight		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12900	MPa	ASTM D638
Tensile Strength	235	MPa	ASTM D638
Tensile Elongation (Break)	2.0 - 3.0	%	ASTM D638
Flexural Modulus	12100	MPa	ASTM D790
Flexural Strength	316	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	270	J/m	ASTM D256
Unnotched Izod Impact	1400	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	213	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.13	%	
Suggested Max Regrind	5	%	
Rear Temperature	260 - 277	°C	
Middle Temperature	266 - 282	°C	
Front Temperature	271 - 288	°C	
Nozzle Temperature	271 - 288	°C	
Processing (Melt) Temp	271 - 288	°C	
Mold Temperature	93.3	°C	
Back Pressure	0.172 - 0.345	MPa	
Screw Speed	30 - 50	rpm	
Cushion	6.35	mm	
Screw L/D Ratio	18.0:1.0 to 20.0:1.0		
Screw Compression Ratio	2.0 : 1.0 - 3.0 : 1.0		
Injection instructions			

Injection speed: 2 to 3 in/secInjection pressure: medium to maximum

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Recommended distributors for this material

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