

Complet® LCF40-PA6

Polyamide 6

PlastiComp, Inc.

Message:

Complet® LCF40-PA6 is a polyamide 6 (nylon 6) product, which contains a 40% long carbon fiber as a filler. It is available in North America, Europe or Asia Pacific. The main features are: Rohs certification.

General Information			
Filler / Reinforcement	Long carbon fiber, 40% filler by weight		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	29600	MPa	ASTM D638
Tensile Strength	290	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	23400	MPa	ASTM D790
Flexural Strength	427	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	270	J/m	ASTM D256
Unnotched Izod Impact	1000	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	249	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	85.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.18	%	
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/sec Injection pressure: medium to maximum

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

