

RC Plastics RCPA6 GF 30

Polyamide 6

RC Plastics, Inc. (Div. of LNP Engineering Plastics)

Message:

RC Plastics RCPA6 GF 30 is a Polyamide 6 (Nylon 6) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: eco-friendly/green.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Recycled Content	Yes		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.35 to 0.45	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	1.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	143	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	7450	MPa	ASTM D790
Flexural Strength	211	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic	0.32		
vs. Itself - Static	0.26		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	48	J/m	ASTM D256
Unnotched Izod Impact	910	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648
Melting Temperature	216	°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0 to 6.0	hr	
Rear Temperature	249 to 288	°C	
Middle Temperature	249 to 288	°C	
Front Temperature	249 to 288	°C	
Processing (Melt) Temp	266 to 277	°C	
Mold Temperature	87.8 to 93.3	°C	
Injection Rate	Fast		

Back Pressure	0.00 to 0.689	MPa
Screw Speed	30 to 60	rpm

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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

