

INLUBE PA612CF30TF13SI2

Polyamide 6/12 Copolymer

Infinity LTL Engineered Compounds

Message:

INLUBE PA612CF30TF13SI2 is a Polyamide 6/12 Copolymer (Nylon 6/12) product filled with 30% carbon fiber. It is available in North America. Primary characteristic: lubricated.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (13%) Silicone Lubricant (2%)		
Features	Lubricated		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 to 0.40	%	
Water Absorption			ASTM D570
24 hr	0.10	%	
Saturation	1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	193	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	19000	MPa	ASTM D790
Flexural Strength	306	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	91	J/m	ASTM D256
Unnotched Izod Impact	590 to 690	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	216	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	266 to 277	°C	
Mold Temperature	93.3	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.013 to 0.025	mm	

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