

# INLUBE PPACF20TF15

Polyphthalamide

Infinity LTL Engineered Compounds

Message:

Inlube PTFE, silicone, MoS2 and graphite internally lubricated compounds

Offered in all Infinity base resins and can be combined with reinforcements and process additives

Provide reduced coefficient of friction and low wear, including enhanced mechanical and thermal properties

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Low Friction		
	Lubricated		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm <sup>3</sup>	ASTM D792
Specific Volume	0.726	cm <sup>3</sup> /g	
Molding Shrinkage - Flow	0.050 to 0.20	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	228	MPa	ASTM D638
Flexural Modulus	15900	MPa	ASTM D790
Flexural Strength	331	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	69	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	285	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	135	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	329	°C	
Mold Temperature	135	°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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#### Recommended distributors for this material

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