

INLUBE PESCF30TF15

Polyethersulfone
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 propertie

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Low Friction		
	Lubricated		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792
Specific Volume	0.636	cm ³ /g	
Molding Shrinkage - Flow	0.050 to 0.10	%	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	165	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	23400	MPa	ASTM D790
Flexural Strength	241	MPa	ASTM D790
Shear Strength	64.1	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	213	°C	ASTM D648
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	4.0	hr	

Processing (Melt) Temp	343 to 379	°C
Mold Temperature	149	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.038 to 0.076	mm

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