

INLUBE PEEKCF15TF15

Polyetheretherketone
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, 15% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Low Friction		
	Lubricated		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Specific Volume	0.681	cm ³ /g	
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	124		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	138	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	262	MPa	ASTM D790

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)	316	°C	ASTM D648
CLTE - Flow	3.2E-5	cm/cm/°C	ASTM D696

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)	V-0		UL 94

Injection	Nominal Value	Unit	
Drying Temperature	149	°C	

Drying Time	4.0	hr
Processing (Melt) Temp	349 to 393	°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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