

INSTRUC FEPGF10

Perfluoroethylene Propylene Copolymer
Infinity LTL Engineered Compounds

Message:

INSTRUC FEPGF10 is a Perfluoroethylene Propylene Copolymer (FEP) product filled with 10% glass fiber. It is available in North America.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.17	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	29.0	MPa	ASTM D638
Tensile Elongation (Yield)	3.0 to 5.0	%	ASTM D638
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength	47.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256
Unnotched Izod Impact	1300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	153	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	ASTM D257
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
100 Hz	2.40		
1 MHz	2.40		
Dissipation Factor			ASTM D150
100 Hz	2.0E-3		
1 MHz	2.0E-4		
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	343 to 385	°C	
Mold Temperature	149 to 204	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	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

