

## TECHNICAL DATA AND PROCESS SHEET

### 10% GLASS FIBER REINFORCED FLUORINATED ETHYLENE PROPYLENE (FEP)

#### INSTRUC FEPGF10

#### TYPICAL PROPERTIES

PROPERTY	VALUE	UNIT	METHOD
<b>PHYSICAL</b>			
SPECIFIC GRAVITY	2.18	-	ASTM D792
MOLD SHRINKAGE, FLOW 0.125"	1.5	%	
<b>MECHANICAL</b>			
TENSILE STRENGTH, BRK	4,200	psi	ASTM D638
TENSILE ELONGATION	3-5	%	ASTMD638
FLEXURAL STRENGTH	6,900	psi	ASTM D790
FLEXURAL MODULUS	480,000	psi	ASTM D790
IZOD IMPACT, NOTCHED	NB	ft-lb/in	ASTM D256
IZOD IMPACT, UNNOTCHED	24.0	ft-lb/in	ASTM D256
<b>THERMAL</b>			
HDTUL @ 264 PSI	308	°F	ASTM D648
<b>ELECTRICAL</b>			
VOLUME RESISTIVITY	10 <sup>14</sup>	ohm-cm	ASTMD257
SURFACE RESISTIVITY	10 <sup>13</sup>	ohms/sq.	ASTMD257
DIELECTRIC STRENGTH	475	v/mil	ASTM D149
DIELECTRIC CONSTANT 100Hz	2.4	-	ASTM D150
DIELECTRIC CONSTANT 10 <sup>6</sup> HZ	2.4	-	ASTM D150
DISSIPATION FACTOR 100Hz	0.002	-	ASTM D150
DISSIPATION FACTOR 10 <sup>6</sup> HZ	0.0002	-	ASTM D150
<b>PROCESSING</b>			
DRYING TEMPERATURE	250	°F	
DRYING TIME	4	hrs	
MELT TEMPERATURE	650-725	°F	
MOLD TEMPERATURE	300-400	°F	
BACK PRESSURE	50-100	psi	
SCREW SPEED	40-70	rpm	

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