

**TECHNICAL DATA AND PROCESS SHEET**

**10% CARBON FIBER REINFORCED 10% PTFE LUBRICATED POLYETHERSULFONE**

**INLUBE PESCF10TF10**

**TYPICAL PROPERTIES**

<b>PROPERTY</b>	<b>ASTM METHOD</b>	<b>English</b>	<b>UNITS</b>	<b>Metric SI</b>	<b>UNITS</b>
<b>GENERAL</b>					
SPECIFIC GRAVITY	D792	1.45		1.45	
SPECIFIC VOLUME		19.1	in <sup>3</sup> /lb	0.690	cm <sup>3</sup> /gm
WATER ABSORPTION (24 Hrs)	D570	0.3	%	0.30	%
MOLD SHRINKAGE	D955	0.1-0.3	%	0.1-0.3	%
<b>MECHANICAL</b>					
TENSILE STRENGTH	D638	21,000	psi	145	MPa
ELONGATION, YIELD	D638	1-3	%	1-3	%
FLEXURAL STRENGTH	D790	30,000	psi	207	MPa
FLEXURAL MODULUS	D790	1,300,000	psi	8,963	MPa
SHEAR STRENGTH	D732				
IZOD IMPACT STRENGTH	D256				
NOTCHED 1/8"		1.1	ft.lb./in.	59	J/m
UNNOTCHED 1/8"		4	ft.lb./in.	213	J/m
ROCKWELL HARDNESS					
<b>THERMAL</b>					
HDTUL	D648	425	°F	218	°C
@ 264 PSI					
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	1.6	in./in. F x10 <sup>-5</sup>	2.88	mm/mm C 10 <sup>-6</sup>
FLAMMABILITY <sup>1</sup>	U.L.Subj 94	V0@1/16	in	V0@1.5	mm
<b>ELECTRICAL</b>					
SURFACE RESISTIVITY		10e <sup>2</sup> -10e <sup>6</sup>	ohms/sq	10e <sup>2</sup> -10e <sup>6</sup>	ohms/sq
<b>PROCESSING</b>					
DRYING TEMPERATURE		300	°F	149	°C
DRYING TIME		4	hrs	4	hrs
MELT TEMPERATURE		650-715	°F	343 - 380	°C
MOLD TEMPERATURE		300	°F	149	°C
BACK PRESSURE		50-100	psi	0.3 - 0.7	MPa
SCREW SPEED		40-70	rpm	40-70	rpm
VENT DEPTH		0.0015-0.003	in	0.038 - 0.075	mm

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