Engineered Compounds
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2079 Center Square Road Swedesboro, NJ 08085

TECHNICAL DATA AND PROCESS SHEET

25% GLASS FIBER REINFORCED ETFE

INSTRUC ETFEGF25

TYPICAL PROPERTIES

PROPERTY	VALUE	UNIT	METHOD
PHYSICAL			
SPECIFIC GRAVITY	1.85	-	ASTM D792
MOLD SHRINKAGE, FLOW 0.125"	0.4-0.6	%	
MOISTURE ABSORPTION 24 HR	0.02	%	ASTM D570
MECHANICAL			
TENSILE STRENGTH, BRK	12,500	psi	ASTM D638
TENSILE ELONGATION	5-7	%	ASTMD638
FLEXURAL STRENGTH	17,000	psi	ASTM D790
FLEXURAL MODULUS	900,000	psi	ASTM D790
IZOD IMPACT, NOTHCED	6.5	ft-lb/in	ASTM D256
IZOD IMPACT, UNNOTCHED	14.0	ft-lb/in	ASTM D256
THERMAL			
HDTUL @ 264 PSI	410	°F	ASTM D648
ELECTRICAL			
VOLUME RESISTIVITY	10^{16}	ohm-cm	ASTM D257
SURFACE RESISTIVITY	10^{15}	ohms/sq.	ASTM D257
DIELECTRIC STRENGTH	410	v/mil	ASTM D149
DIELECTRIC CONSTANT 100Hz	3.4	-	ASTM D150
DIELECTRIC CONSTANT 10^6HZ	3.4	-	ASTM D150
DISSIPATION FACTOR 100Hz	0.003	-	ASTM D150
DISSIPATION FACTOR 10^6HZ	0.008	-	ASTM D150
PROCESSING			
DRYING TEMPERATURE	250	°F	
DRYING TIME	4	hrs	
MELT TEMPERATURE	600	°F	
MOLD TEMPERATURE	250	°F	
BACK PRESSURE	50-100	psi	
SCREW SPEED	40-70	rpm	