



2079 Center Square Road
 Logan Township, NJ 08085
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TECHNICAL DATA AND PROCESS SHEET

20% GLASS FIBER REINFORCED 15% PTFE LUBRICATED PBT

INLUBE PBTGF20TF15

TYPICAL PROPERTIES

PROPERTY	ASTM METHOD	English	UNITS	Metric SI	UNITS
GENERAL					
SPECIFIC GRAVITY	D792	1.56		1.56	
SPECIFIC VOLUME		17.76	in ³ /lb	0.641	cm ³ /gm
WATER ABSORPTION (24 Hrs)	D570	0.05	%	0.05	%
MOLD SHRINKAGE	D955	0.3-0.4	%	0.3-0.4	%
MECHANICAL					
TENSILE STRENGTH	D638	15,000	psi	103	MPa
ELONGATION, YIELD	D638	3-5	%	3-5	%
FLEXURAL STRENGTH	D790	24,000	psi	165	MPa
FLEXURAL MODULUS	D790	1,000,000	psi	6,895	MPa
SHEAR STRENGTH	D732				
IZOD IMPACT STRENGTH	D256				
NOTCHED 1/8"		1	ft.lb./in.	53	J/m
UNNOTCHED 1/8"		15	ft.lb./in.	800	J/m
ROCKWELL HARDNESS					
THERMAL					
HDTUL @ 264 PSI	D648	410	°F	210	°C
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	2.2	in./in. F x10 ⁻⁵	3.96	mm/mm C 10 ⁻⁶
FLAMMABILITY ¹	U.L.Subj 94	HB@1/16	in	HB@ 1.5	mm
ELECTRICAL					
SURFACE RESISTIVITY		10e ¹⁶	ohms/sq	10e ¹⁶	ohms/sq
PROCESSING					
DRYING TEMPERATURE		230	°F	110	°C
DRYING TIME		4	hrs	4	hrs
MELT TEMPERATURE		430-500	°F	220- 260	°C
MOLD TEMPERATURE		225	°F	107	°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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