

TECHNICAL DATA AND PROCESS SHEET

30% CARBON FIBER REINFORCED 15% PTFE LUBRICATED NYLON 6/6

INLUBE PA66CF30TF15

TYPICAL PROPERTIES

PROPERTY	ASTM	English	UNITS	Metric SI	UNITS
	METHOD				
GENERAL					
SPECIFIC GRAVITY	D792	1.38		1.38	
SPECIFIC VOLUME		20.07	in ³ /lb	0.725	cm ³ /gm
WATER ABSORPTION (24 Hrs)	D570	0.50	%	0.50	%
MOLD SHRINKAGE	D955	0.2-0.4	%	0.2-0.4	%
MECHANICAL					
TENSILE STRENGTH	D638	30,500	psi	210	MPa
ELONGATION, YIELD	D638	1-2	%	1-2	%
FLEXURAL STRENGTH	D790	48,000	psi	331	MPa
FLEXURAL MODULUS	D790	2,300,000	psi	15,858	MPa
SHEAR STRENGTH	D732				
IZOD IMPACT STRENGTH	D256				
NOTCHED 1/8"		1.8	ft.lb./in.	96	J/m
UNNOTCHED 1/8"		17	ft.lb./in.	906	J/m
ROCKWELL HARDNESS					
THERMAL					
HDTUL	D648	490	°F	254	°C
@ 264 PSI					
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	1.4	in./in. F x10 ⁻⁵	2.52	mm/mm C 10 ⁻⁶
FLAMMABILITY ¹	U.L.Subj 94	HB@1/16	in	HB@ 1.5	mm
ELECTRICAL					
SURFACE RESISTIVITY		10e2-10e4	ohms/sq	10e2-10e4	ohms/sq
PROCESSING					
DRYING TEMPERATURE		175	°F	79	°C
DRYING TIME		4	hrs	4	hrs
MELT TEMPERATURE		500-575	°F	260 - 301	°C
MOLD TEMPERATURE		200	°F	93	°C
BACK PRESSURE		50-100	psi	0.3 - 0.7	MPa
SCREW SPEED		40-70	rpm	40-70	rpm
VENT DEPTH		0.0005-0.001	in	0.0125 - 0.025	mm

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