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**TECHNICAL DATA AND PROCESS SHEET**

**2% SILICONE LUBRICATED IMPACT MODIFIED NYLON 6/6**

**INLUBE PA66SI2IM**

**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	1.1		1.1	
SPECIFIC VOLUME		25.18	in <sup>3</sup> /lb	0.909	cm <sup>3</sup> /gm
WATER ABSORPTION (24 Hrs)	D570	1.40	%	1.40	%
MOLD SHRINKAGE	D955	1.5-1.8	%	1.5-1.8	%
<b>MECHANICAL</b>					
TENSILE STRENGTH	D638	6,500	psi	45	MPa
ELONGATION, YIELD	D638	20-30	%	20-30	%
FLEXURAL STRENGTH	D790	10,500	psi	72	MPa
FLEXURAL MODULUS	D790	270,000	psi	1,862	MPa
SHEAR STRENGTH	D732				
IZOD IMPACT STRENGTH	D256				
NOTCHED 1/8"		2.5	ft.lb./in.	133	J/m
UNNOTCHED 1/8"		26	ft.lb./in.	1386	J/m
ROCKWELL HARDNESS					
<b>THERMAL</b>					
HDTUL @ 264 PSI	D648	130	°F	54	°C
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	4.5	in./in. F x10 <sup>-5</sup>	8.1	mm/mm C 10 <sup>-6</sup>
FLAMMABILITY <sup>1</sup>	U.L.Subj 94	HB@ 1/16	in	HB@ 1.5	mm
<b>ELECTRICAL</b>					
SURFACE RESISTIVITY		10e <sup>16</sup>	ohms/sq	10e <sup>16</sup>	ohms/sq
<b>PROCESSING</b>					
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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