



2079 Center Square Road
 Logan Township, NJ 08085
 Phone: 856-467-3030

TECHNICAL DATA AND PROCESS SHEET

20% CARBON FIBER REINFORCED ABS

INELEC ABSCF20

TYPICAL PROPERTIES

PROPERTY	ASTM METHOD	English	UNITS	Metric SI	UNITS
GENERAL					
SPECIFIC GRAVITY	D792	1.13		1.13	
SPECIFIC VOLUME		24.51	in ³ /lb	0.885	cm ³ /gm
WATER ABSORPTION (24 Hrs)	D570	0.14	%	0.14	%
MOLD SHRINKAGE	D955	0.05-0.2	%	0.05-0.2	%
MECHANICAL					
TENSILE STRENGTH	D638	15,500	psi	107	MPa
ELONGATION, YIELD	D638	2-4	%	2-4	%
FLEXURAL STRENGTH	D790	22,000	psi	152	MPa
FLEXURAL MODULUS	D790	1,700,000	psi	11,721	MPa
SHEAR STRENGTH	D732				
IZOD IMPACT STRENGTH	D256				
NOTCHED 1/8"		1.2	ft.lb./in.	64	J/m
UNNOTCHED 1/8"		5.6	ft.lb./in.	298	J/m
ROCKWELL HARDNESS					
THERMAL					
HDTUL	D648	215	°F	102	°C
@ 264 PSI					
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696				
FLAMMABILITY ¹	U.L.Subj 94	HB@1/16	in	HB@ 1.5	mm
ELECTRICAL					
SURFACE RESISTIVITY		10e ² -10e ⁴	ohms/sq	10e ² -10e ⁴	ohms/sq
PROCESSING					
DRYING TEMPERATURE		170	°F	77	°C
DRYING TIME		4	hrs	4	hrs
MELT TEMPERATURE		400-550	°F	205- 288	°C
MOLD TEMPERATURE		180	°F	82	°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

This information is based on our experience to date and we believe it to be reliable. It is intended only as a guide for use at your discretion and risk. We cannot guarantee favorable results and assume no liability in connection with its use of the products described. Each user bears full responsibility for making it's own determination as to the suitability of the product described. None of this information is to be taken as a license to operate under, or recommendation to infringe any patents.