

TECHNICAL DATA AND PROCESS SHEET

30% GLASS FIBER REINFORCED ABS

INSTRUC ABSGF30

TYPICAL PROPERTIES

PROPERTY	ASTM METHOD	English	UNITS	Metric SI	UNITS
GENERAL					
SPECIFIC GRAVITY	D792	1.28		1.28	
SPECIFIC VOLUME		21.64	in ³ /lb	0.781	cm ³ /gm
WATER ABSORPTION (24 Hrs)	D570	0.15	%	0.15	%
MOLD SHRINKAGE	D955	0.1-0.15	%	0.1-0.15	%
MECHANICAL					
TENSILE STRENGTH	D638	14,500	psi	100	MPa
ELONGATION, YIELD	D638	3-4	%	3-4	%
FLEXURAL STRENGTH	D790	18,500	psi	128	MPa
FLEXURAL MODULUS	D790	1,100,000	psi	7,584	MPa
SHEAR STRENGTH	D732	7,500	psi	52	MPa
IZOD IMPACT STRENGTH	D256				
NOTCHED 1/8"		1.4	ft.lb./in.	75	J/m
UNNOTCHED 1/8"		6.5	ft.lb./in.	346	J/m
ROCKWELL HARDNESS		M97	M Scale	M97	M Scale
THERMAL					
HDTUL	D648	230	°F	110	°C
@ 264 PSI					
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	1.6	in./in. F x10 ⁻⁵	2.88	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		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

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