



**DUETS - LASER ENGRAVING STOCK –TECHNICAL DATA**

Rev. 5/11/16

PROPERTIES	TEST METHOD	UNITS	VALUES
<b><u>Mechanical Properties</u></b>			
Tensile Strength	ASTM D-638	Psi (MPa)	6,510 (39)
Elongation	ASTM D-638	Percent	38
Modulus of Elasticity	ASTM D-638	Psi (MPa)	255,000 (1,760)
Flexural Strength	ASTM D-790	Psi (MPa)	8,890 (61)
Impact Strength-Izod (notched, ¼")	ASTM D-256	Ft-lb/in. (J/m)	1-2 (66)
Impact Strength-Falling Weight (1/8")	ASTM D-3029 GB	In-lb (J)	56 (6.33)
<b><u>Thermal Properties</u></b>			
Vicat Softening Temperature	ASTM D-1525 (rate A)	°F (°C)	227 (108)
Heat Deflection-Under Load	ASTM D-648 (264 ps;)	°F (°C)	176 (80)
Average Melt Flow Rate	ASTM D-1238 (3.8/230)	g/10 min	0.8
Coefficient of Linear Thermal Expansion	ASTM D-696	cm-cm/°C	12 x 10 <sup>-5</sup>
Molding Shrinkage	ASTM D-955	Percent	0.2-0.6
<b><u>Other Properties</u></b>			
Specific Gravity	ASTM D-792		1.16
Flame Spread	ASTM E-84		115
Smoke Dev. Index	ASTM D-2843		550
Self Ignition Temperature	ASTM D-1929		833
Thermal Expansion Rate			.00023/in.
General	ASTM D-4802*	n/a	n/a

\*Category B-1 and B-2