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**RSRS SERIES - SCRATCH RESISTANT SERIES /HIPS**  
**TECHNICAL DATA SHEET: ROLL-A-LAM (#RL-0113-BS)**

<b>Physical Properties</b>	<b>Specifications</b>
<b>Substrate:</b>	Styrene (HIPS)
<b>Substrate Colors:</b>	Black, White, Natural and Colors
<b>Substrate Gauges:</b>	.007 to .250 mils
<b>Sheet Size:</b>	Up to 50" width x 144" length
<b>Fabrication Properties:</b>	Router, saw, die-cut, shear
<b>UV Light Resistance:</b>	n/a
<b>Abrasion:</b>	No visible change when tested with 0000 steel wool; <10mg weight loss, CS10F wheels, 250 cycles, 500g/wheel
<b>Chemical Resistance:</b>	Exhibits excellent resistance to alcohols, ketones, hydrocarbons, esters, mild acids, salt solutions, and most household cleaners.
<b>Scratch/Hardness:</b>	H to 2H pencil hardness
<b>Vicat Softening Point</b>	ASTM D-1525 212 degrees F
<b>Specific Gravity</b>	ASTM D-792 1.04 g/cc
<b>Tensile Modulus</b>	ASTM D-638 270,000 psi
<b>Izod Impact</b>	ASTM D-256 @ 73 F 3.5 ft-lbs/in
<b>Flexural Modulus</b>	ASTM D-790 285,000 PSI
<b>Coefficient of Thermal Expansion</b>	ASTM D-696 4.5 x 10 <sup>-5</sup> in/in/F
<b>Tensile Strength @ Yield</b>	ASTM D-638 3,700 psi
<b>Flexural Strength @ Yield</b>	ASTM D-790 7,000 psi
<b>Heat Deflection Temperature</b>	ASTM D-648 (264 psi unannealed) 185 degrees F
<b>Hardness</b>	ASTM D-785 68 Rockwell R (L)
<b>Flammability</b>	UL Subject 94 HB .062 thickness

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