



Outwater Plastics Industries Inc.

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RSRS Series – Scratch Resistant Series / HIPS
Technical Data Sheet

Outwater Plastics = roll-a-lam (#RL-0113-BS)

<u>Physical Properties</u>	<u>Specifications</u>
Substrate:	Styrene (HIPS)
Substrate Colors:	Black, White, Natural and Colors
Substrate Gauges:	.007 to .250 mils
Sheet Sizes:	Up to 50” width x 144” length
Fabrication Properties:	Router, saw, die-cut, shear
UV Light Resistance:	N/A
Abrasion :	No visible change when tested with 0000 steel wool; <10mg weight loss,CS10F wheels, 250 cycles, 500g/wheel
Chemical Resistance:	Exhibits excellent resistance to alcohols, ketones, hydrocarbons, esters, mild acids, salt solutions, and most household cleaners.
Scratch/Hardness:	H to 2H pencil Hardness
Vicat Softening Point	ASTM D-1525 212 degrees F
Specific Gravity	ASTM D-792 1.04 g/cc
Tensile Modulus	ASTM D-638 270,000 psi

Izod Impact	ASTM D-256 @ 73 F 3.5 ft-lbs/in
Flexural Modulus	ASTM D-790 285,000 PSI
Coefficient of Thermal Expansion	ASTM D-696 4.5 x 10 ⁻⁵ in/in/F
Tensile Strength @ Yield	ASTM D-638 3,700 psi
Flexural Strength @ Yield	ASTM D-790 7,000 psi
Heat Deflection Temperature	ASTM D-648 (264 psi unannealed) 185 degrees F
Hardness	ASTM D-785 68 Rockwell R (L)
Flammability	UL Subject 94 HB .062 thickness

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