

R/bak® Cushion Mounting Materials
R/bak® Cushion Mounting Materials – Corrugated Typical Values*

R/bak® materials are high-density, open cell, polyurethane foams used to build thickness on the cylinder, provide cushioning, and absorb vibration in the Flexographic printing process. The use of R/bak cushioning materials results in uniform quality printing over long run conditions. R/bak materials are available in a variety of length and thickness configurations.

R/bak SF¹ and R/bak SS² materials have an integrated polyester support layer to ensure dimensional stability and serve as a mounting base. R/bak U³ material is designed without the polyester support layer, and is recommended for cylinder build-up and spot cushioning. R/bak U1A⁴ is recommended for cylinder build-up, spot cushioning and spot coating applications for higher print quality.

Property**	Test Method	R/bak® SF, U & U1A	R/bak® SS
Color		Blue	Black
Density: lbs./cu. ft. (kg/m ³)	ASTM D3574 Test A	20.0 (320)	20.0 (320)
Compression Set: Max. %	ASTM D1667 (73°F)	1.3	1.3
Compression Set: Max. %	ASTM D3574 (158°F)	3.3	3.3
CFD psi (kPa)	Stress at 25% Deflection	18 (124)	10 (69)
Hardness, Durometer Shore O	ASTM D2240	24	17
Hardness, Durometer Shore A	ASTM D2240	16	12
Tear Strength pli, min. (kN/m)	ASTM D624 , Die C	10 (1.8)	5 (.9)
Tensile Strength psi, min. (kPa)	ASTM D3573 Test E	120	75
Tensile Elongation % min.	ASTM D3573 Test E	100	100
Cold Flexibility	Mil-P12420D @-40° F	Pass	Pass
Water Absorption % Weight Gain	AMS 3568	2	2
Water Absorption % Weight Gain	ASTM D570	5	10
UV Resistance	ASTM G53	Good	Good
Solvent Resistance	50/50 Soap / Water	Good	Good
Thickness Tolerance	Within Roll	Nominal + .004" ± .004"	Nominal + .004" ± .004"
Roll Length & Width		See Availability Sheet	See Availability Sheet

¹ R/bak SF – Supported Firm

² R/bak SS – Supported Soft

³ R/bak U – Unsupported

⁴ R/bak U1A – Unsupported w/single sided acrylic adhesive

*Typical values are a representation of an average value for the population of the property. For specification values contact Rogers Corporation.

** Properties indicated are cushion material only, except dimensions: thickness, width and length

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