



DAYSTRONG RUBBER PRODUCTS, LLC

### DK153/DK154 DATA SHEET

This data sheet covers DK153/DK154. If pressure sensitive adhesive (PSA) is applied to the material the product designation is DK153, without pressure sensitive adhesive (PSA) the designation is DK154.

DK153/DK154 is a cork loaded sponged rubber material first produced by Armstrong World Industries in the 1960s at the Braintree, Massachusetts plant and then in Mauldin, South Carolina. Today DK153/DK154 is produced in Mauldin, South Carolina by DayStrong, a company established by former employees of Armstrong and Day International.

#### General Information

DK153/DK154 is a black SBR rubber and granulated cork that is intimately mixed, keyed to a cotton scrim backing and vulcanized. During the vulcanization process the cork, rubber and cotton backing form a permanent bond providing strength, resilience and stability to the parts fabricated from the DK153/DK154. A chemical reaction during the vulcanization process imparts sponginess to the material for improved compressibility and sealing properties. After vulcanization the DK153/DK154 is sanded to gauge. The sanding process exposes the granulated cork providing a material with high surface friction.

DK153/DK154 should be stored in a relaxed, unstressed condition. The maximum storage temperature is 85F (30C) away from ozone forming equipment such as electric motors, transformers, etc. and away from direct sunlight. Material may be stored under these conditions for up to 2 years.

#### **ASTM Physical Property Information**

Property	Test Method	Unit	Typical Value
• Hardness	ASTM D 2240	Shore A	42
• Density	ASTM F 1315	g/cm <sup>3</sup>	.625 (or 39lb/ft <sup>3</sup> )
• Volume Change	ASTM F 146 Fuel A	%	+23.5
• Volume Change	ASTM F 146 Fuel B	%	+45.5
• Volume Change	ASTM F 146 IRM 903 (Formerly Oil #3)	%	+44.4
• Volume Change	ASTM F 146 IRM 901 (Formerly Oil #1)	%	+9.3
• Flexibility	ASTM F 147-09 IRM-901	n/a	No Cracks
• Tensile Strength	ASTM F 152(B)	Mpa	1.45 (or 210psi)
• Compressibility @ 400 PSI	ASTM F 36(B)	%	44.85
• Minimum Recovery	ASTM F 36(B)	%	91.42
• Compressibility @ 100 PSI	ASTM F 36(F)	%	30.75
• Minimum Recovery	ASTM F 36(F)	%	92.53
• Thermal Conductivity, K	ASTM F 433	W/m*K	0.120

**DK153/DK154 Complies with the European Union REACH & RoHS Directives**

**DK153 can be certified to AMS-T-6841 & other certifications on request**

#### **Dimensions, Tolerances & Contact Information**

• Material Thickness	1/32 (0.79mm) 1/16 (1.59mm) 5/64 (1.98mm) 3/32 (2.38mm) 1/8 (3.18mm)
• Thickness Tolerance	1/32 -0/+0.010 (0.25mm) 5/64 +/- .005 (0.13mm) All Others +/- .010 (0.25mm)
• Adhesive	PSA is an acrylic base with 60 lb. liner. Total thickness .0055 (0.14mm) Adhesive thickness .002 ( 0.05mm) Liner thickness .0035 (0.09mm)
• Widths	From 1-1/4 inch (31.75mm) to 36 inch (914.4mm)
• Roll Length	From 50 feet (15.2m) to 900 feet (274m) depending on thickness
• Contact Information	DayStrong Rubber Products, LLC Phone 864-284-1085 11 Forrester Drive Fax 864-288-0662 Mauldin, South Carolina 29662 E Mail <a href="mailto:sheilaanderson@daystrongllc.com">sheilaanderson@daystrongllc.com</a> <a href="http://www.daystrongllc.com">www.daystrongllc.com</a>