



PRODUCT NEWS

Auburn Manufacturing Co.
29 Stack St., Middletown, CT 06457
Phone (860) 346-6677 FAX (860) 346-1334
www.auburn-mfg.com
email:info@auburn-mfg.com

ECH CLOSED CELL SPONGE (Epichlorohydrin)

Applications

Auburn ECH Closed Cell Expanded Rubber is ideal in applications where Acrylic, Neoprene and Nitrile sponge or expanded rubber are being used, especially at their maximum temperature limit. The temperature range of AUBURN ECH is -30°F to +300°F with intermittent use up to +350°F. This also allows it to replace Silicone Sponge in applications between +225°F and +300°F. However, information should be obtained from Auburn for specific design conditions.

High Performance Characteristics

Auburn ECH has excellent resistance to ozone and to swell from contact with alcohols, halogenated solvents, hydrocarbons and miscellaneous solvents*. It is recommended for gasket, seal and vibration dampening applications within the temperature range noted above.

GENERAL PHYSICAL CHARACTERISTICS OF ECH SPONGE Meets an ASTM-D-1056 Classification Available in 36" x 42" sheets, in thicknesses of .062" thru 1.00"

Stock Number	A-71-E	A-72-E	A-73-E	A-75-E
Color	Black	Black	Black	Black
Compression Deflection, PSI	2-5	5-9	9-13	17-24
Tensile Strength (Min. PSI)	65	70	125	250
Density (PCF)	10-20	12-25	15-30	20-35
Elongation, Ultimate (Min. %)	250	250	250	250
Compression Set - 1/2" Sample Compressed 50% for 22 Hrs. @ 70°F & 24 Hrs. Recovery.	20	20	20	20
Burn Rate (MVSS-302, in./min.) Thickness Tested (in.)	1.50 .275	1.30 .320	0.60 .470	0.37 .455
Heat Aging (7 Days @ 158°F Lineal Shrinkage Max.)	5%	5%	5%	5%

Auburn ECH is also available with a high tack acrylic based pressure sensitive adhesive.

* See reverse side for compatibility with various solvents and conditions.

ENVIRONMENTAL PROPERTIES

Weather and Sunlight Aging	Good
Oxidation	Good
Ozone Resistance	Good
Water	Good
Steam	Fair

GENERAL RESISTANCE

Alkali Resistance (Dilute)	Good
Alkali Resistance (Concentrated)	Use with Caution
Acid Resistance (Dilute)	Good
Acid Resistance (Concentrated)	Fair
Ketones, Oxygenated Solvents	Fair
Chlorinated Hydrocarbons	Excellent
Aliphatic Hydrocarbons	Good to Excellent
Aromatic Hydrocarbons	Good to Excellent
LP Gases, Fuel Oils	Excellent
Alcohols	Fair to Good
Brake Fluid (Non-petroleum Base)	Use with Caution
Animal and Vegetable Oils	Excellent
Hydraulic Fluids	
Petroleum Base	Excellent
Water/Glycol	Good
Silicate Ester	Good
Phosphate Ester	Not Recommended

PLEASE NOTE: The above is general data. Specific information concerning applications should be requested from your Auburn customer service representative.