Product Information

DURATEX® HIGH IMPACT POLYSTYRENE (HIPS)

DESCRIPTION

Grimco Duratex HIPS is an extruded high impact polystyrene sheet built for sign, display, and fabrication applications that offers a dependable balance of strength, formability, and finish quality. It is available in many standard and customizable colors, finishes, and additive options to cover a broad range of printing, point-of-purchase display, and signage applications.

CHARACTERISTICS

- Printability – lithography, screen, UV digital, and flexography
- Fabrication – thermoforming, die cutting, heat bending, punching, and CNC cutting
- Properties – Excellent toughness, rigidity, and impact strength; low temperature and ESCR grades available
- Color – custom colors and several standard white/black options ranging from translucent to 100% dead opaque
- Surface Finishes – matte/matte, matte/gloss, semigloss/satin, digital gloss, and hi-gloss
- Sheet Modifiers – Corona Treatment, UV Inhibitors, Impact Modifiers, Bio-Additives

FDA STATUS

Duratex HIPS is manufactured with materials compliant with FDA Food Additive Regulation 21 CFR 177.1640 under the U.S. Food, Drug, and Cosmetic Act. Such uses are subject to good manufacturing practices and other applicable limitations; consult Grimco for complete details.

COMPLIANCE

For detailed regulatory compliance information — including TSCA, RoHS, REACH SVHC, PPWR, California Proposition 65, and Conflict Minerals declarations — refer to Grimco's Duratex Regulatory and Compliance Statement, available from your Grimco representative.

TECHNICAL DATA

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
Thickness ± 5% or .001 max (whichever is greater)	in.	.010" TO .125"	ASTM T411
Specific Gravity	g/cm³	1.04	ASTM D1505
Tensile Strength @ Break (TD / MD)	psi	3,055 / 2,470	ASTM D882
Elongation @ Break (TD / MD)	%	55 / 30	ASTM D882
Tear Propagation Resistance (TD / MD)	lb.	0.35 / 0.16	ASTM D1938
Stiffness (TD / MD)	Taber Units	16.1 / 13.9	ASTM D5342
Heat Deflection Temperature @ 264 psi (molded)	°F	184	ASTM D648
Hardness – Shore D	—	> 60	ASTM D-2240
Flame Rating	UL 94 Class	HB	UL 94

**based on .010" sheet thickness*

Revision Date: July 2026

Values shown here are for general product reference and are not to be used as a specification. Actual performance may vary based on sheet thickness, color, gauge, and processing conditions, so purchasers should confirm suitability for their intended application through their own testing prior to use. Grimco accepts no liability for loss, damage, or expense arising from reliance on this information.