EMPIRE/BOLTARON 6500

GENERAL FEATURES – EMPIRE/BOLTARON 6500 Sheet combines flame resistance, very high impact, high rigidity and ease of forming into a premium quality sheet for thermoforming. Due to the nature of this proprietarily compounded product, it has found wide acceptance for use on virtually every type of thermoforming equipment and consistently provides excellent mold detail with a minimum of forming forces.

THERMOFORMING –FABRICATION/FINISHING - Conventional wood and/or metalworking tools such as saws, drills, routers, grinders, etc. can be used for fabrication of EMPIRE/BOLTARON 6500 Sheet EMPIRE/BOLTARON 6500 Sheet also lends itself to die cutting, painting, adhesive and solvent bonding, mechanical fastening and welding.

COLORS AND SURFACE TEXTURES - In that each order is produced on a custom basis, our customers are free to order the color of their choice so long as minimum volume requirements are met.

PRINTING

EMPIRE/BOLTARON PRINT 6500 Sheet is a high quality ABS/PVC alloy that offers increased heat distortion and flexural properties. Available in custom gauges and sheet sizes, EMPIRE/BOLTARON PRINT 6500 Sheet can be an ideally suited alternative to injection molded chip cards, which generally require a time consuming individual printing process. EMPIRE/BOLTARON PRINT 6500 Sheet can be processed in the same manner as conventional solid core plastic and may be used in conjunction with standard overlay materials.

AVAILABILITY

Colors - custom
Gauges - .010" to .250" (256 - 6410 microns)
Sheet sizes - custom

SUGGESTED APPLICATIONS

THERMOFORMING - Computer and business machine housings, covers and bezels. Electronic and laboratory equipment cabinetry. Aircraft and transportation vehicle interior trim components.

PRINTING - Credit cards, placards and specialty items requiring service temperatures beyond conventional core capabilities.

EMPIRE/BOLTARON 6500 -Typical physical properties

Property	ASTM Test Method	Typical Values
Specific gravity	**D 792**	**1.34 .03**
Tensile strength (PSI)	D 638	5,300
Tensile modulus(PSI X 10^5)	D 638	3.3
Flexural strength (PSI)	D 790	8,000
Flexural modulus (PSI X 10^5)	D 790	2.8
Compressive strength (PSI)	D 695	9,000
Shear strength (PSI)	D 732	4,500
Hardness, Rockwell R	D 785	105
Deflection Temperature		
66 PSI (F)	D 648	172
254 PSI (F)	D 648	161
Izod Impact Ft. lbs./in. notch		
@ -70 F	D 256	8
@ -20 F	D 256	.6
@ -40 F	D 256	
Flammability* 1/8" Thickness	D 635	5 sec/.6"
ATB/AEB		
Federal Aviation Administration		
FAR 25.853 A1, (ii)		
Minimum Thickness		.093"