

# Regal Graphics Styrene - Print Grade

## High Impact Polystyrene

**GAUGE RANGE**      Rolls: .010 - .060  
 (Others Available)    Sheets: .010 - .150

**GAUGE TOLERANCES**

± 5% or .0015 Max Deviation (Which ever is greater)

Roll Width            Max 50"    ± 1/16"  
 (TD)                    \*\*Min 14"    ± 1/16"  
 Sheet Width          Max 50"    -0 / +1/4"  
 (TD)                    \*\*Min 14"    -0 / +1/4"  
 Sheet Length        Max 96"    -0 / +1/4"  
 (TD)                    \*\*Min 14"    -0 / +1/4"

Square Cut Sheets      Up to .045\*\*\*  
 Sheet Width            Max 50"    -0 / +1/16"  
 (TD)                    Min 20"    -0 / +1/16"  
 Sheet Length          Max 96"    -0 / +1/8"  
 (TD)                    Min 14"    -0 / +1/8"

Cores: 3" (6" or 8" for appropriate gauges)

Non-Square Cut: 1/4" differential on diagonal up to 48" plus  
1/32" per foot for diagonal over 48" with maximum 3/8"

Square Cut Diagonal: 1/16" differential up to 48" plus  
 1/32" per foot for diagonal over 48" with maximum 1/8"

\*\*\* Over .045 add 1/16" to Diagonal and MD Tolerances.

Flatness: LAY FLAT SHEET ± 1/8" from nominal

Surface: Matte 2 sides (Other available upon request)

Corona Treating available (.060 Max)

\* TRANSVERSE DIRECTION (TD) at our discretion unless specified at time of order

Packaging: Standard Regal packaging applies.

### CALCULATIONS OF WEIGHTS FOR STYRENES

The factor .0386 can be used to estimate sheet weight

Approximate yield 25,900 sq. in./lb (.001")

Length (") x Width (") x Thickness (mils) x .0386 = Lbs./Sheet

### TYPICAL PHYSICAL PROPERTIES

### TEST METHOD

### VALUE

Melt Flow Condition G	D1238	2.6
Izod Impact (1/4") ft-lb/in. notch	D256	2.0
Gardber Impact, Method G	D3029	40
Vicat Softening Temperature / F	D1525	215
Deflection Temperature Unannealed	D648	190
Tensile Strength at Yield/psi	D638	3300
Tensile Strength at Break/psi	D638	3100
Tensile Elongation at Break/%	D638	45
Flexural Properties	D790	280,000
Specific Gravity	D792	1.03
Water Absorption	D570	0.06%
Thermal Expansion	D696	4.5 x 10 <sup>-5</sup> 1° F
Flammability Class / UL94		94HB
FDA Approval	FDA	YES

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