



## New Generation Sign Faces



**MATRA PLAST**

# Hi-Core® XL Sheets “Sign Grade”

Matra Plast Industries, Inc. has developed the “Sign Grade” XL sheets as the obvious choice for exceptional performance as faces in illuminated signs where cost, performance and quality are all deciding factors. The extruded twin-wall profile provides for cost-effective, lightweight strength. **Hi-Core® Sign Grade XL** sheets are made from a proprietary polymer alloy formulated for physical and environmental toughness. The sheets are backed by a 10-year limited warranty

## NOTABLE PROPERTIES

- Excellent chemical resistance.
- High performance Ultra-Violet protection.
- Excellent impact resistance.
- Wide temperature range without use constraints: -4° F to 135° F (-20°C to +57°C) (ISO 75)
- Lightweight and rigid.
- Offers uniform diffused light transmission to reduce hot spots from lighting.
- Easy to decorate, handle and install.
- Unaffected by water, weather and oxidation.
- Easily used as a replacement in all styles of signs.
- Can be cold formed to a radius or crease bent to a corner.
- An excellent thermal and electrical insulator.
- Very good impact resistance even at low temperatures.
- Excellent abrasion resistance.
- Can be easily die-cut to complex shapes or letters.

## SPECIFICATIONS

<b>Sheet widths</b>	48" (1220mm), 72" (1830mm), 80" (2030mm)		
<b>Sheet lengths</b>	8 ft (2440mm) to 50 ft (15,240mm) (Subject to available transportation restrictions)		
<b>Thickness</b>	<b>4mm</b>	<b>6mm</b>	<b>8mm</b>
<b>Light Transmission</b>			
Sign White	30%	30%	30%
Natural Trans	85%	80%	77%
<b>Sheets can be cold bent on site in the length of flute direction to these minimum radiuses:</b>			
<b>Cold Bend Radius</b>	24"	36"	48"
<b>Thermal Expansion: Temperature Range Coefficient of Linear Thermal Expansion (mm/mm/° C x 10-5)</b>			
	-30° C to 0° C - 12	0° C to 30° C - 14	30° C to 60° C - 21
As a general rule allow 1/8 " per foot (10mm per m) of length or width for expansion at average temperatures.			
Water vapour absorption: 24 hours - 0.03%, 6 months - 0.06%			

## RESISTANCE

Hi-Core® Sign Grade XL sheets are very resistant to many common chemicals. The following are considered safe:

Most Aqueous Acids, Ethylene Glycol, Plating Solution, Hydrogen Peroxide, Transformer Oil, Alcohol, Liquid Ammonia, Most Aqueous Alkalis, Lubricating Oil, Vinegar, Most Detergents, Methyl Ethyl Ketone (MEK), Acetone, Caustic Potash

These chemicals need some caution:

100% Benzene, Bromine, 50% Nitric Acid, Chloroform, Chlorine Gas, Perchloroethylene, 100% Sulphuric Acid, Turpentine, Toluene

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