

80-BLACK

40-ORANGE

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15-IVORY

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**PLASTIC
CORRUGATED
SHEET**





APPLICATIONS



SIGNS:

Real Estate, Point of Sale, Seed and Feed, Political Lawn, Construction, Zoning Change, Event Promotions, Exterior Transit Advertising.

PACKAGING:

Returnable totes, Sleeves, Portfolios, Bins and Rack Liners, Divider Dunnage, Presentation Kits, Inter-Plant Distribution Boxes, Postal Containers.



POLYPROPYLENE AND HIGH DENSITY POLYETHYLENE



Matra Plast Inc., manufactures sheets from impact grade polypropylene (graphics and packaging) and high density polyethylene (packaging and utility applications). Both products compete against many traditional materials where benefits of light weight strength, weather resistance, chemical resistance and durability under repeat abuses make Hi-Core® sheets a cost effective choice. 10 mm graphic sheets are a durable lightweight alternative to plywood, metal or solid plastic - a 4' x 8' sheet weighs only 13 lbs. Additives are available for static control, long term ultra violet protection and to reduce flammability.

COMPARISON OF RESIN PROPERTIES
HI-CORE® POLYPROPYLENE AND HI-DENSITY POLYETHYLENE

PROPERTY	TEST SI Units	Polypropylene		Polyethylene	
		Eng. Units	SI Units	Eng. Units	SI Units
Melt Index	ASTM D1238	1.4 dg		0.4 dg	
Density	ASTM D1505	0.898 gm/cm ³		3 0.955 gm/cm ³	
Tensile @ Yield	ASTM D638	27 MPa	3,880 psi	28 MPa	4,100 psi
Elongation @ Yield	ASTM D638	10%	10%	800%	800%
Flexural Modulus	ASTM D790	1,220 MPa	177,000 psi	1,220 MPa	177,000 psi
ESCR, F ₅₀	ASTM D1639	n/a	n/a	25 hr	25 hr
Izod Impact	ASTM 256	1.59 J/cm	2.99 Ft•lb/in	2.1 J/cm	3.93 Ft•lb/in
Softening Pt. (Vicat)	ASTM D1525	143°C	290°F	128°C	263°F
Softening Temp. (range)		n/a	n/a	112°C-132°C	234°F-270°F
Melting Temp. (range)		160°C-166°C	320°C-330°F	125°C-135°C	257°F-275°F
Low Temp. Brittleness	ASTM D746	-5°C	23°F	<-70°C	<-94°F
Hardness	D785/D2240	90 Rockwell (R Scale)		69 (Shore D Scale)	
Chemical Reactivity		Acid Free		Acid Free	



DISPLAY:
Dump Bins, Counter Merchandizers,
Easel Backers, Safety Barricades.

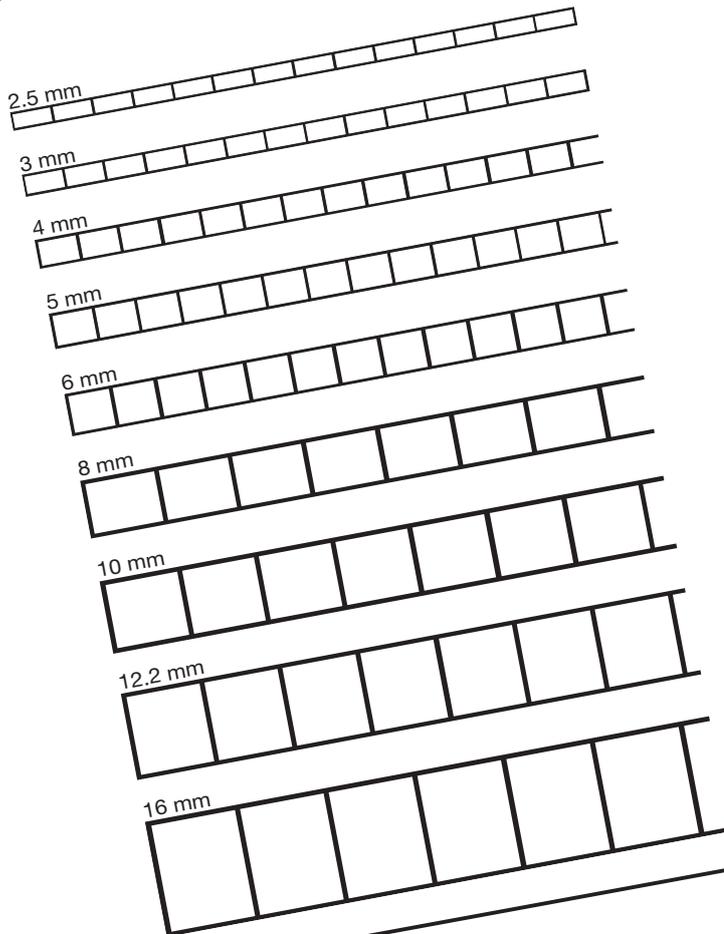
OEM:
Livestock trailer
Enclosure, Automotive
Tire Cover, Gazebo
Privacy Panels,
Shower Doors, toy
Components, Truck
Liners, Plant
Repotting Centre.

SPECIFICATIONS



BASIS WEIGHTS

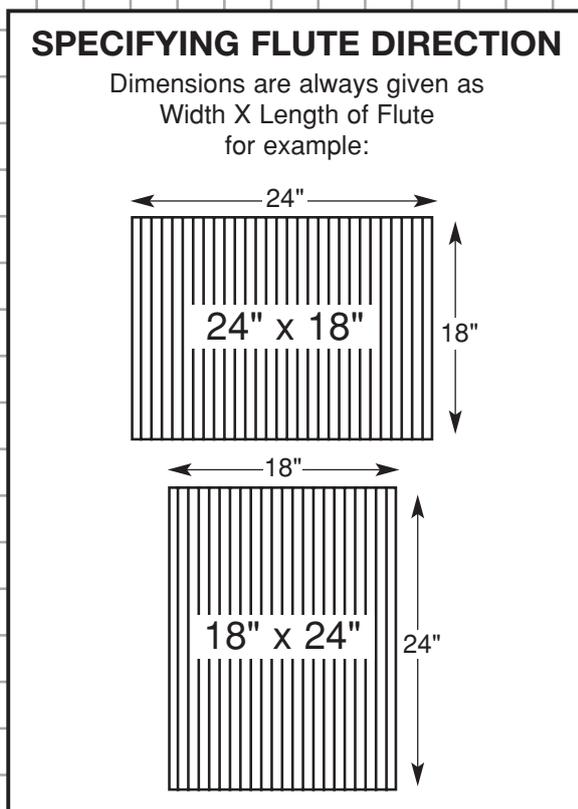
Standards have been established in various end uses for both the polypropylene and the polyethylene. At any thickness, the basis weight can be adjusted to satisfy performance needs of specific end uses, subject to volume constraints.





AVAILABILITY

4mm GRAPHIC SIZES Available Quantity Per Skid	
48" x 96" - White, Colors	250 / Skid
48" x 74" - White	250 / Skid
45" x 65" - White	250 / Skid
44" x 64" - White	250 / Skid
36" x 72" - White	250 / Skid
36" x 24" - White	500 / Skid
32" x 24" - White	500 / Skid
24" x 48" - White	500 / Skid
24" x 36" - White	500 / Skid
24" x 32" - White	500 / Skid
24" x 24" - White	500 / Skid
24" x 18" - White	1,000 / Skid
24" x 12" - White	2,000 / Skid
18" x 24" - White, Yellow	1,000 / Skid



STANDARDS:

Stock sheet sizes in all gauges are 48" x 96" and 80" x 100".

Custom cut sizes are available for packaging and graphic uses.

CORONA TREATMENT:

Minimum 55 Dynes

In order for Hi-Core sheets to react with inks and adhesives they must be subjected to an in-line electrical process called CORONA TREATMENT. Levels are specified in the units called dynes. The minimum level of 55 dynes allows for adhesion of standard ink systems including - solvent, UV cure, flexographic, catalysed water base and lettering enamels.

MANY TYPES OF GLUES WILL WORK FOR SPECIFIC END USES

White Glue - Fabric lamination - test for bleed
PSA - Rubber or permanent acrylic
Hot Melts - Need to remain flexible when set
Silicone - Excellent surface bond
Contact Cements - solvent or water base
We recommend you discuss with a local adhesive supplier and test for suitability of end application.

CUTTING:

Cuts made with a knife, slitter or guillotine are clean and chip free.
Sawcuts tend to leave chips which can be a problem in printing operations.
Hi-Core is easily die-cut on flat bed or rotary equipment using long-bevel or serrated rule.

FOOD PACKAGING STATUS:

(Both Resins)

CANADA: Health Protection Branch- No objection for direct food contact subject to end use regulation.
USA: Complies with requirements, US Food and Drug Administration, 21 CFR 177.1520, subject to end use regulation.

RECYCLING / SAFETY:

Both products are chemically and biologically inert. They are fully recyclable. Should recycling of these products not be possible, disposal to landfill or incineration in accordance with government laws and regulations is considered safe and recommended. The resin code recycling symbols developed to identify these materials for sorting and recycling purposes are:



HDPE



PP



Matra Plast Inc. produces and sells a line of high quality plastic sheets. All such products are warranted to comply with current production specifications. We expect the Buyer to verify the suitability of the product for the particular end use and particularly with respect to printing, to verify performance of the intended inks on the batch of sheet. Matra Plast obligates itself to the Buyer, only to replace or at Matra Plast's option to refund the cost of proven defective material.

The liability of Matra Plast, whether based on its warranties, contract or otherwise, shall in no case exceed the purchase price of the Hi-Core product and does not include incidental or consequential damages.

All claims concerning product defects must be made within twelve (12) months of shipment. Absence of such claims in writing, during this period, will constitute a waiver of all claims with respect to such product.

This warranty is the users sole remedy and is IN LIEU OF any and all other warranties, expressed or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

NOTICE:

Hi-Core is a combustible thermoplastic and may constitute a fire hazard if improperly handled. Observe precautions as for wood or paper and be certain all applicable Federal, State, Provincial and Local fire regulations have been satisfied.



MATRA PLAST

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