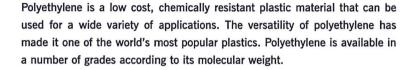
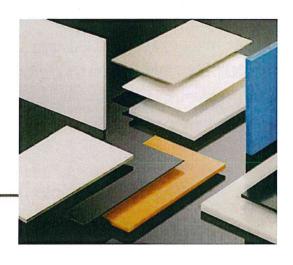
## HDPE (high density polyethylene)

POLYSTONE® G



HDPE (high density polyethylene) is available as sheet or rod stock for applications that require greater strength and stiffness than LDPE. HDPE with an embossed surface is widely used as a cutting board material in restaurants and food processing plants. HDPE is easy to weld using thermoplastic welding equipment and is an excellent choice for fabricated water tanks and chemical tanks that must be assembled by thermoplastic welding.





## **KEY CHARACTERISTICS:**

- · Easy to weld using thermoplastic welding equipment
- · Low moisture absorption
- Excellent surface for food preparation
- · Good chemical resistance
- · Low cost
- · Printable grades available
- · FDA compliant grades available
- · Available in a wide variety of colors

## **APPLICATIONS:**

- · Chemical tanks
- Water pipe flanges (pipe grade)
- · Cutting boards for food preparation
- · Orthotics and prosthetics
- · Playground equipment

## POLYETHYLENE TYPICAL PROPERTIES:

	UNITS	ASTM TEST	LDPE	HDPE	UHMW-PE
Tensile strength	psi	D-638	1,400	4,000	3,100
Flexural modulus	psi	D-790	30,000	200,000	110,000
Izod impact (notched)	ft-lbs/in of notch	D-256	no break	1.3	18.0*
Heat deflection temperature @66 psi	°F	D-648	122	172	
Maximum continuous service temperature in air	°F				180
Water absorption (immersion 24 hours)	%	D-570	0.10	0.10	slight
Coefficient of linear thermal expansion	in/in/ºFx10⁻⁵	D-696	-	7.0	11.1

HDPE Standard Sizes: SHEET: 48"x96" (0.062"-4.0" thick), 48"x120" (0.062"-4.0" thick), 60"x120" (0.125"-1.0" thick), 96"x120" (1.5"-4.0" thick), 96"x240" (1.5"-4.0" thick) ROD: diameter 0.25"-10.0"

Length, width, thickness, and diameter tolerances vary by size and by manufacturer • Custom sizes and colors available upon request • Many of our materials are available as films with thicknesses of 0.029\* or less. Values may vary according to brand name. Please ask your Curbell Plastics representative for more specific information about an individual brand. \*Double-15° notch

Curbell Plastics has been supplying plastic sheet, rod, tube, films, adhesives, sealants, and prototyping materials for over 65 years



**NATIONWIDE** 1.888.CURBELL

1.888.CURBELL

www.curbellplastics.com

©2008 Curbell Plastics, Inc. All other trademarks and service marks are property of the respective manufacturers. All statements, technical information and recommendations contained in this publication are presented in good faith, based upon tests believed to be reliable and practical field experience. The reader is excurbed, lnc. cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine the HDPEDataSheet 0308