



## Polyethylene

Polyethylene HDPE sheets are a rigid material available in large sheets sizes and varying colours such as black, natural and safety yellow. Ideal for general use in plant engineering, tank construction and waste water industry, where all round chemical resistance and weatherability are required..

### **Key Benefits:**

- Weldable/Bendable - suitable for fabrication
- UV Resistant - Black only
- Physiologically inert - approved for food applications (Natural only)
- Electrical insulation - it is a good insulator
- Weatherproof - it doesn't absorb water
- Chemical resistance - resists corrosive chemicals (e.g. Sulphuric Acid, Caustic Soda)

### **Applications:**

- Plastic Fabrication
- Tanks
- Storage Vessels
- Waste Water Chemical Process Industry
- Food Preparation, Cutting Boards

NOMINAL PHYSICAL PROPERTIES <sup>(1)</sup>	English	SI	Method
<b>Density</b>	---	0.948 g/cm <sup>3</sup>	ASTM D1505
<b>Flow Rate</b> (HLMI, 190/21.6)	---	10.0 g/10 min	ASTM D1238
<b>Tensile Strength at Yield</b> , 2 in/min, Type IV bar	3,600 psi	25 MPa	ASTM D638
<b>Elongation at Break</b> , 2 in/min, Type IV bar	700%	700%	ASTM D638
<b>Flexural Modulus</b> , Tangent - 16:1 span:depth, 0.5 in/min	175,000 psi	1,200 MPa	ASTM D790
<b>ESCR</b> , Condition A (100% Igepal), F <sub>50</sub>	>600 h	>600 h	ASTM D1693
<b>ESCR</b> , Condition B (100% Igepal), F <sub>50</sub>	>600 h	>600 h	ASTM D1693
<b>Durometer Hardness</b> , Type D (Shore D)	68	68	ASTM D2240
<b>Vicat Softening Temperature</b> , Loading 1, Rate A	258°F	126°C	ASTM D1525
<b>Heat Deflection Temperature</b> , 66 psi, Method A	173°F	78°C	ASTM D648
<b>Brittleness Temperature</b> , Type A, Type I specimen	<-103°F	<-75°C	ASTM D746
<b>Tensile Impact</b> , Type S bar	90 ft•lb/in <sup>2</sup>	190 kJ/m <sup>2</sup>	ASTM D1822

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