

**SAN DIEGO PLASTICS, INC.**

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**Densetec HDPE Borated Sheet:  
Typical Properties**

Property*	ASTM Test Method	Typical Values	
		English Units	Metric Units
Density	D1505	59.6 lbs/ft <sup>3</sup>	.955 g/cc
Melt Index, Condition 190 °C / 2.16 kg	D1238	---	0.25 g/10 min
Polyethylene Classification	D4976	Group 2, Class 3, Grade 5	Group 2, Class 3, Grade 5
Tensile Strength @ Yield	D638	4000 psi	27.6 MPa
Ultimate Elongation	D638	> 600%	> 600 %
Tensile Impact Strength	D1822	70 ft-lbf/in <sup>2</sup>	147 KJ/m <sup>2</sup>
Notched Izod Impact Strength	D256	2.99 ft-lbf/in	159 J/m
Compressive Stress @ Yield	D695	1,500 psi	10.3 MPa
ESCR, Condition A (100% Igepal), F <sub>50</sub>	D1693	45 hours	45 hours
ESCR, Condition B (100% Igepal), F <sub>50</sub>	D1693	35 hours	35 hours
Durometer Hardness	D2240	64 Shore D	64 Shore D
Flexural Modulus	D790	200,000 psi	1379 MPa
Brittleness Temperature	D746	<-120 °F	<-84 °C
Coefficient of Linear Thermal Expansion	E831	7 X 10 <sup>-5</sup> in/in/°F	1.26 X 10 <sup>-4</sup> cm/cm/°C
Fire Rating	Underwriters Labs	UL94HB	UL94HB
Minimum Boron % by Weight	Private Test	5%	5%

\*The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

Typical Properties reported herein were determined on compression molded samples prepared in accordance with Procedure C of ASTM D4703, Annex A1.