

Technical Data Sheet of 5% Borated Polyethylene Sheet

COMPOSITION DATA:	
Hydrogen Atom Density/cm ³	7.5 x 10 ²²
Natural Isotope Distribution	99.98% ¹ H
Boron Atom Density/cm ³	3.0 x 10 ²¹
Natural Isotope Distribution	19.6% ¹⁰ B and 80.4% ¹¹ B
Weight Percent of All Isotopes of Boron	5.0%
Total Density	1.08 g/cm ³ (67 lb/ft ³)
RADIATION PROPERTIES:	
Macroscopic Thermal Neutron Cross Section	2.00 (cm ⁻¹)
Gamma Resistance	5 x 10 ⁸ rad
Neutron Resistance	2.5 x 10 ¹⁷ n/cm ²
PHYSICAL PROPERTIES:	
State	Sheet ,bricks, slabs, cylinders, pellets
Color	Black ,green and other special color
Odor	no odor
Machinability	excellent
Compressive Strength:	800 psi
THERMAL PROPERTIES:	
Recommended Temperature Limit	180 °F (82.2 °C)
Melting Point	210 °F (98.8 °C)
Boiling Point	300 °F (149 °C)
Thermal Conductivity	1
Cubical Coefficient of Expansion	6.1 x 10 ⁻⁴
Linear Coefficient of Expansion	2 x 10 ⁻⁴
CHEMICAL PROPERTIES	
Chemical Name & Synonyms	Borated Polyethylene

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