



**Densetec Oceanbound
Typical Properties**

Properties	ASTM Test Method	Typical Properties	
		English Units	Metric Units
Physical and Mechanical Properties			
Density	D792	59.43 - 59.93 lbs/ft ³	0.952 - 0.960 g/cc
Polyethylene Classification	D4976	Group 2, Class 3, Grade 4	Group 2, Class 3, Grade 4
Mechanical Properties			
Tensile strength @ Yield, MPa (ksi)	D638	4,000 psi	27 MPa
Tensile strength @ Break, MPa (ksi)	D638	5,800 psi	40.0 MPa
Flexural Modulus	D790	200,000 psi	1379 Mpa
Tensile IMPact Strength	D1822	70 ft-lbf/in ²	147 KJ/m ²
Elongation at Break	D638	600%	600%
Notched Izod Impact Strength	D256	1.3 ft-lbf/in	6.9 J/m
Izod Impact Strength	D4020, Method A	> 28.4 ft-lbf/in ²	> 60 KJ/m ²
Charpy Impact	ISO 11542-2	> 37.9 ft-lbf/in ²	> 80 KJ/m ²
Durometer Hardness	D2240	64 Shore D	64 Shore D
Water Absorption @ Saturation	D570	0.01%	0.01%
Melt Index, Condition 19D D C / 2.16 kg	D1238	-----	0.40 - 0.60 g/10 min
Heat Deflection Temperature @ 66 psi	D648	174 °F	79 °C
Vicat Softening Temperature	D1525	257 °F	125 °C
Brittleness Temperature	D746	< - 120 °F	< - 84.1 °C
Coefficient of Linear Thermal Expansion	D696	8.3 X 10 ⁻⁵ in/in/°F	1.49 X 10 ⁻⁴ cm/cm/°C
Thermal Conductivity	C177	2.8 Btu-in/h-ft ² -°F	0.39 W/m-°K
Specific Heat	C351 / D150	0.48 Btu/lb/°F	0.62 KJ/Kg/°C

*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

*The nominal properties reported herein were determined on compression molded samples prepared in accordance with Procedure C of ASTM D4703, Annex A1.