

# Blue Diamond Industries

## PE 3408 Pressure Rated

*Industrial Pressure Rated HDPE*

### AWWA C 906

#### Design Pressure:

SDR 9	200 psi
SDR 11	160 psi
SDR 13.5	128 psi



### Typical Material Physical Properties PE 3408

Property	Test Procedures	Metric Units*	English Units*
Cell Classification	ASTM D3350-05	345464C	Grade PE34
Melt Index	ASTM D1238	<.15 gm/10 min	----
Tensile Strength (Yield)	ASTM D638	21-24 MPa	3000 - 3500 psi
Flexural Modulus	ASTM D790	----	110,000 - 160,000 psi
Environmental Stress Crack Resistance (ESCR)	ASTM F1473 (PENT)	>100 hrs	>100 hrs
Ultimate Elongation	ASTM D638	>800%	>800%
Material Density	ASTM D1505	0.940 - 0.947 gm/cc	----
Brittleness Temperature	ASTM D746	<-118°C	<-180°C
Izod Impact Strength	ASTM D256	.32 KJ/m	6 ft - lb/in
Volume Resistivity	ASTM D991	>10 <sup>15</sup> ohm - cm	----
Thermal Expansion	ASTM D696	2x10 <sup>-4</sup> cm/cm°C	1.1x10 <sup>-4</sup> (in/in/°F)
Hydrostatic Design Basis @ 23° C	ASTM D2837		1600 psi

\* Consult ASTM Standards for acceptable tolerances.

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