

# IntegriFuse PE3408|PE4710|PE100 HDPE FITTINGS

## SPECIFICATIONS



**IntegriFuse fittings are manufactured with black high density bimodal polyethylene copolymer designed for use in potable water, natural gas, industrial, landfill, and mining applications. Fittings meet AWWA and ASTM-D2513 & ASTM-D3261 requirements, and are manufactured with material that is NSF Standard 14 certified, and complies with ANSI/NSF Standard 61 health effects requirements. IntegriFuse fittings are recognized by the Plastic Pipe Institute as having a material designation code of PE 3408, PE3608, PE 4710, and PE 100**

<b>Physical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Density	.0959 g/cc	0.0346 lb/in	Black: ASTM D4883
Environmental Stress Crack Resistance	>= 5000 hour	>= 5000 hour	Condition C; ASTM D1693
Carbon Black Loading	2.3%	2.3%	ASTM D1603
Melt Flow	8.00 g/10 min @ load 21.6 kg, Temp 190 C	8.00 g/10 min @ load 47.6 lb, Temp 374 F	ASTM D1238
<b>Mechanical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
PENT	>= 1000 hour	>= 1000 hour	Notched Tensile; ASTM F1473
Hardness, Shore D	66.0	66.0	ASTM D2240
Tensile Strength at Break	37.9 MPa	5500 PSI	2 in/min; ASTM D638
Tensile Strength Yield	24.99 MPa	3635 psi	2 in/min; ASTM D638
Elongation at Break	>= 600%	>= 600%	2 in/min; ASTM D638
Flexural Modulus	1.03 GPa	150 ksi	2% Secant-Method; ASTM D790
Izod Impact, Notched	4.81 J/cm	9.00 ft-lb/in	ASTM D256
Hydrostatic Design Basis	6.89 MPa	1000 psi	At 60 C; ASTM D2837
	11.MPa	1600 psi	Room Temp; ASTM D2837
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Vicat Softening Point	126 C	259 F	ASTM D1525
Brittleness Temperature	<= - 118 C	<= - 180 F	ASTM D746
Decomposition Temperature	>= 200 C	>= 428 F	Thermal Stability, ASTM D2513,
<b>Descriptive Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Cell Classification		445574C	ASTM D1525
Process		Injection Molding	