



Conduit HDPE Pipe Material Specifications

Polyethylene plastics, as defined by ASTM D3350, are plastics or resins prepared by the polymerization of no less than 85% ethylene and no less than 95% of total olefins with additional compounding ingredients. All Endurance Poly Producers' polyethylene conduit materials shall meet or exceed cell class PE334430B per ASTM D3350, as listed in the cell classification table below. Conduit HDPE pipe shall also be made in accordance with ASTM F2160.

Polyethylene Pipe Cell Classification				
Property	Units	Test Method	Acceptable Range	Value, PE
Density	g/cm ³	D1505	>0.940 - 0.947	3
Melt index	g/10 min	D1238	<0.4 to <0.15	3 or 4
Flexural modulus	psi	D790	80,000 - <160,000	4 or 5
Tensile strength at yield	psi	D638	3000 - <4000	4 or 5
SCGR @ F = 20% max	hours	D1693 / F1473	192 – 600 / 10	3 or 4
Hydrostatic Strength Classification	psi	D2837	Undefined	0 - 4
Color and UV stabilizer	N/A	D3350	A - E	B - E