

Geo-Shield

HDPE Smooth

Geo-Shield High Density Polyethylene is produced from virgin polyethylene resins. **Geo-Shield** HDPE has outstanding chemical resistance, mechanical properties, environmental stress crack resistance, dimensional stability, and thermal aging characteristics. **Geo-Shield** HDPE contains approximately 97.5% polymer and 2.5% carbon black, antioxidants and heat stabilizers, and contains no other additives, fillers or extenders. **Geo-Shield** HDPE has excellent UV resistance. **Geo-Shield** HDPE does not contain plasticizers that can migrate to the surface, causing premature aging. Manufactured from virgin polyethylene resins, it is designed to provide a high quality, economical geomembrane.

Properties	Test Method	Typical Average Roll Values				
Color		Black	Black	Black	Black	Black
Thickness, mils – (minimum average) • Lowest Individual Value – 10%	ASTM D5199	12	20	30	40	60
Density, gram/cm ³ - Minimum	ASTM D1505	.94	.94	.94	.94	.94
Tensile Properties – Each Direction						
Tensile Strength at Break, lbs/in width (N/mm)	ASTM D6693 Type IV	45 (8)	76 (13)	114 (20)	162 (28)	228
Tensile Strength at Yield, lbs/in width (N/mm)	Dumbell, 2 ipm	24 (4)	40 (7)	63 (11)	84 (15)	126
Elongation at Break, %	G.L. 2.0 in	700	700	700	700	700
Elongation at Yield, %	G.L. 1.3 in	12	12	12	13	12
Tear Resistance, lbs. (N)	ASTM D1004	8 (35)	13 (60)	21 (93)	28 (125)	42
Puncture Resistance, lbs. (N)	ASTM D4833	21 (93)	36 (160)	54 (240)	64 (284)	108
Carbon Black, % minimum	ASTM D1603	2	2	2	2	2
Carbon Black Dispersion	ASTM D5596	Note (1)	Note (1)	Note (1)	Note (1)	Note (1)
Oxidative Induction Time, Minutes	ASTM D 3895 200° C, O ₂ , 1atm	>100	>100	>100	>100	

Note 1: 9 of 10 views shall be category 1 or 2. No more than 1 view from category 3.

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