

CONFORMITY OF PRODUCT

TME GeoTech HDPE Geomembrane



Purpose of Usage

Environmental Protection & Waste Management, Water Resource Management, Mining & Chemical Containment, Aquaculture & Agriculture, Industrial & Civil Applications

Application Locations

Dams / Ponds / Fire Pools, Irrigation and Water Convection Channels, Solid, Medical and Hazardous Waste Sites, Waste Ponds (Solid, Medical, Hazardous, Chemical), Oil and Mining Sites, Sewerage Facilities / Sewerage Systems, Fish and Seafood Production Ponds

Properties	Unit				
Thickness	mm	≥ 1,50	≥ 2,00	≥ 2,50	≥ 3,00
Mass per Unit Area	g/m ²	≥ 1410	≥ 1880	≥ 2350	≥ 2820
Shear Strength	N / 50 m	≥ 750	≥ 1000	≥ 1250	≥ 1500
Peeling Strength	N / 50 m	≥ 525	≥ 700	≥ 875	≥ 1050
Liquid Permeability	m ³ / (m ² day)	≤ 4x10 ⁻⁶			
Carbon Black Quantity	by mass %	2,00 - 3,00			
Density	g / cm ³	0,940 - 0,970			
Melt Mass Flow Rate (MFR)	g/10 Minute	0,10 - 1,00			
Oxidation Induction Time (OIT)	Minute	≥ 150			
Elongation Ratio (transversely and longitudinally) K: Break A: Yield	%	K ≥ 700,00 A ≥ 10			
Tearing Strength (Transversely and Longitudinally)	kN/m	≥ 125			
Fire Resistance		Class E			
Thermal Expansion	cm / cm / °C	≤ 2x10 ⁻⁴			
Foldability at Low Temperature	°C	-30			

Product Features

HDPE (High-Density Polyethylene) geomembranes are premier waterproofing liners featuring exceptional chemical resistance, low permeability, high tensile strength, and UV stability. Engineered for durability, these eco-friendly liners commonly serve landfills, mining operations, and water containment projects, offering a 40–70 year lifespan.