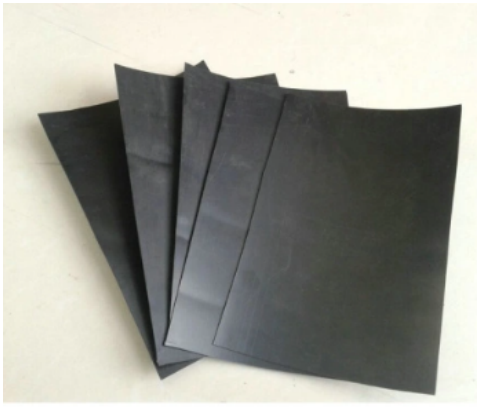
TME Grup Makina İnşaat San. Tic. Ltd. Şti.

CONFORMITY OF PRODUCT

TME GeoTech LLDPE Geomembrane



Purpose of Usage

Environmental Protection & Waste Management, Liquid Containment & Water Management, Industrial Mining Operations, Secondary Containment, Flexibility-Dependent Applications

Application Locations

Landfills, Wastewater Lagoons, Heap Leach Pads, Evaporation Ponds & Flowback Pits, Secondary Containment, Reservoirs & Retention Ponds, Aquaculture & Fish Farms, Canals, Tunnel Waterproofing, Dam & Retaining Wall Liners, Floating Covers, Tunnel liners and under-floor vapor barriers

Properties	**Unit**				
Thickness	mm	≥ 1,50	≥ 2,00	≥ 2,50	≥ 3,00
Mass per Unit Area	g/m²	≥ 1380	≥ 1840	≥ 2300	≥ 2760
Shear Strength	N / 50 m	≥ 750	≥ 1000	≥ 1250	≥ 1500
Peeling Strength	N / 50 m	≥ 525	≥ 700	≥ 875	≥ 1050
Liquid Permeability	m³ / (m² day)	≤ 4x10-⁶			
Carbon Black Quantity	by mass %	2,00 - 3,00			
Density	g / cm³	0,920 - 0,939			
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			
Tearing Strength (Transversely and Longitudinally)	kN/m	≥ 100			
Fire Resistance		Class E			
Thermal Expansion	cm / cm / °C	≤ 2x10-4			
Foldability at Low Temperature	°C	-30			
Melting Point	°C	120 - 130 °C			

Product Features

LLDPE (Linear Low-Density Polyethylene) geomembrane is a highly flexible, durable, and chemical-resistant synthetic liner primarily used for anti-seepage and containment in environmental, geotechnical, and industrial projects. Its superior elasticity allows it to conform to irregular surfaces, making it ideal for landfill capping, mining leachate pads, and wastewater ponds.

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