

PLASTATECH[®] TECH 5[®]

GEOMEMBRANE

DESCRIPTION:

Plastatech[®] Tech 5[®] geomembranes help shield the environment against chemicals and other pollutants commonly found in landfills, reservoirs, chemical processing plants, refineries, manufacturing facilities, and water treatment operations.

Plastatech Tech 5 is reinforced with a high-tenacity, non-wicking, polyester scrim that provides exceptional dimensional stability, puncture strength, and long-term durability. Plastatech Tech 5 meets the challenges found in irregularly contoured areas and high stress applications requiring protective barriers. Plastatech Tech 5 can be easily installed in exposed work sites. It is produced in a 30-mil thickness.

USES:

- Wastewater containment
- Secondary containment
- Secondary lining
- Landfill covers
- Containment ponds

PACKAGING AND COLOR OPTIONS:

- **Available sizes**
 - Common roll sizes are listed below. Contact Plastatech for custom sizes.

Thickness	Width	Length	Roll Area	Approx. Weight
30 mils	64 in.	150 yd. (450 ft.)	2,400 sq. ft.	580 lb.

- **Available colors**
 - Black



INSTALLATION:

Plastatech Tech 5 will perform satisfactorily when properly field fabricated and incorporated into an installation over a suitable base of pre-consolidated soil.

Contact Plastatech for installation instructions.

WARRANTY:

Contact Plastatech for warranty details.

STORAGE:

Store rolls lengthwise on pallets. Use tarps to keep rolls dry. Keep out of direct sunlight and weather.

PLASTATECH® TECH 5®

PHYSICAL PROPERTIES:

Plastatech Tech 5 has been subjected to the following tests.

	Test Method	Units	30-mil
Fabric Weight	ASTM D3776	oz/yd ²	5.0
Finished Weight	ASTM D751	oz/yd ²	29.9
Thickness	ASTM D751	mils	30.0 ± 5%
Breaking Strength	ASTM D751	lbf/in.	450 MD/390 CMD
Tear Strength	ASTM D4533	lbf	94 MD/68 CMD
Low Temperature Resistance	ASTM D2136 1/8-Inch Mandrel	-25° F	Pass
Dimensional Stability	ASTM D1204	%	-0.7 MD/0.03 CMD
Hydrostatic Resistance	ASTM D751 Procedure A	psi	> 660
Blocking Resistance	ASTM D751	180° F (#2 rating)	Pass
Adhesion	ASTM D751	lbf/in.	Not separable
Adhesion Heat-Welded Seam	ASTM D751	lbf/in.	> 90
Bonded Seam Strength	ASTM D751	lbf	290
Abrasion Resistance	Tabor 5305	50mg/100 cycles	Pass
		2,000 cycles	Pass
Weathering Resistance	QUV	hours	11,000
Water Extraction	ASTM D3083	%	< 0.25
Wicking		in.	Pass
Bursting Strength	ASTM D751	psi	660
Puncture Resistance	ASTM D4833	lbf	> 180
Coefficient of Thermal Expansion	ASTM D696	mm/mm·°C	1.3 x 10 ⁻⁵ MD
Tongue Tear	ASTM D751	lbf	105 MD/81 CMD

Chemical	Effect
ASTM Fuel A	C
Diesel Fuel	C
Gasoline	M
Jet Fuel	C
Kerosene	C
Crude Oil	C
Motor Oil	C
Hydraulic Oil	C
Corn Oil	C
Methanol	C
Ethanol	C
Isopropyl Alcohol	C
Ethyl Glycol	C
Heptane	C

Chemical	Effect
Chlorine Bleach	C
Methyl Ethyl Ketone (MEK)	I
Toluene	I
Xylene	I
Tetrahydrofuran (THF)	I
Mineral Spirits	C
Hydrochloric Acid (20%)	C
Sulfuric Acid (20%)	C
Phosphoric Acid	C
Distilled Water	C
Deionized Water	C
Municipal Water	C
Sea Water	C
Waste Water	C

Key: C = Compatible M = Moderately Compatible I = Incompatible