

Available in Custom Sized Pre-Fabricated Panels

PVC POLY VINYL CHLORIDE

FEATURES

- PVC is flexible, which makes for a quick installation
- Can be chemically bonded for easy installation
- Cost effective
- Easily repaired by owner
- Warranty is based on application
- Available in custom sized panels
- Industrial or fish grade available in 20, 30, 40, 50 & 60 mil thicknesses
- Maximum 3:1 slope for cover soil
- 60 year track record of performance
- UV stable option available

PVC is a widely used and proven solution to many containment needs. PVC has excellent elongation characteristics which allow for better settlement on difficult sub-grade and transitions. PVC requires 12 inches of clean cover soil. Colorado Lining can fabricate PVC into custom sized panels and facilitate a full installation with one of our certified installation crews.

APPLICATIONS

- Coal ash containment
- Golf course ponds
- Decorative ponds
- Wastewater treatment ponds
- Landfill caps and cells
- Irrigation reservoirs and canals
- Entry and detention ponds
- Stock tanks

FOR MORE INFO CALL 800.524.8672



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Product Data



PVC Material Information

Certified Properties ²	ASTM	PVC 10	PVC 20	PVC 30	PVC 40	PVC 50	PVC 60
Thickness	D-5199	10 ± 0.5 mil 0.25 ± 0.013 mm	20 ± 1 mil 0.51 ± 0.03 mm	30 ± 1.5 mil 0.76 ± 0.04 mm	40 ± 2 mil 1.02 ± 0.05 mm	50 ± 2.5 mil 1.27 ± 0.06 mm	60 ± 3 mil 1.52 ± 0.08 mm
Tensile Properties ³	D-882 ⁴ Min						
Strength at Break	(MD & TD)	24 lbs/in 4.2 kN/m	48 lbs/in 8.4 kN/m	73 lbs/in 12.8 kN/m	97 lbs/in 17.0 kN/m	116 lbs/in 20.3 kN/m	137 lbs/in 24.0 kN/m
Elongation		250%	360%	380%	430%	430%	450%
Modulus at 100%		10 lbs/in 1.8 kN/m	21 lbs/in 3.7 kN/m	32 lbs/in 5.6 kN/m	40 lbs/in 7.0 kN/m	50 lbs/in 8.8 kN/m	60 lbs/in 10.5 kN/m
Tear Strength	D-1004 ⁴ Min	2.5 lbs 11 N	6 lbs 27 N	8 lbs 35 N	10 lbs 44 N	13 lbs 58 N	15 lbs 67 N
Dimensional Stability	D-1204 ⁴ Max Chg (MD & TD)	4%	4%	3%	3%	3%	3%
Low Temperature Impact	D-1790 ^{4,6} Pass	-10°F -23°C	-15°F -26°C	-20°F -29°C	-20°F -29°C	-20°F -29°C	-20°F -29°C
Index Properties ⁵	ASTM	PVC 10	PVC 20	PVC 30	PVC 40	PVC 50	PVC 60
Specific Gravity	D-792 Typical	1.2 g/cc	1.2 g/cc	1.2 g/cc	1.2 g/cc	1.2 g/cc	1.2 g/cc
Water Extraction	D-1239 ⁴ Max Loss	0.15%	0.15%	0.15%	0.20%	0.20%	0.20%
Percent Loss (max) Average Plasticizer	D-2124 ^{4,5,7}	400	400	400	400	400	400
Molecular Weight							
Volatile Loss	D-1203 ⁴ Max Loss	1.5%	0.9%	0.7%	0.5%	0.5%	0.5%
Percent Loss (max) Soil Burial	G160 ⁴ Max Chg						
Break Strength		5%	5%	5%	5%	5%	5%
Elongation		20%	20%	20%	20%	20%	20%
Modulus at 100%		20%	20%	20%	20%	20%	20%
Hydrostatic Resistance	D-751 ⁴ Min	42 psi 290 kPa	68 psi 470 kPa	100 psi 690 kPa	120 psi 830 kPa	150 psi 1030 kPa	180 psi 1240 kPa
Seam Strengths	ASTM	PVC 10	PVC 20	PVC 30	PVC 40	PVC 50	PVC 60
Shear Strength ³	D-882 ⁴ Min	20 lbs/in 3.45 kN/m	38.4 lbs/in 6.7 kN/m	58.4 lbs/in 10 kN/m	77.6 lbs/in 14 kN/m	96 lbs/in 17 kN/m	116 lbs/in 20 kN/m
Peel Strength ³	D-882 ⁴ Min	10 lbs/in 1.8 kN/m	12.5 lbs/in 2.2 kN/m	15 lbs/in 2.6 kN/m	15 lbs/in 2.6 kN/m	15 lbs/in 2.6 kN/m	15 lbs/in 2.6 kN/m

1. FGI 1115 replaces PGI 1104 Specification effective 1/1/15.

2. Certified properties are tested by lot as specified in PGI 1104 Appendix A

3. Metric values are converted from US values and are rounded to the available significant digits

3. Modifications or further details of test are described in PGI 1104 Appendix B

5. Index properties are tested once per formulation as specified in PGI 1104 Appendix A

6. For arid climates (sheet temperature of 50°C or 120°F) passing temperatures are -17°C for PVC 20 and -20°C for all other thicknesses

7. For arid climates use average plasticizer molecular weight of 410

FOR SALES INFORMATION

Corporate Headquarters - Denver: 800.524.8672 / 303.841.2022

Houston Office: 888.546.4641 California Office: 303.951.5942

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CLI has over 35 years of experience in the geosynthetics industry, and we offer custom Design-Build solutions that are cost effective and reliable. Our services include Geomembrane and Spray Coating Materials, Custom Fabrication, and Certified Installation.