



CO: 800.524.8672
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PVC - POLY VINYL CHLORIDE

PVC is a widely used and proven solution to many containment needs. PVC requires 12 inches of clean cover for extended life.

Colorado Lining can fabricate PVC into custom sized panels. and facilitate a full installation with one of our certified installation crews. We want to work with you to make your job a success.

Product Features:

- 20 Year Warranty
- Industrial or Fish Grade
- Flexible
- Available In Custom Sized Panels
- Cost Effective
- Quick Installation
- Easily Repaired By Owner
- Available In 20, 30, 40, 50, & 60 Mils
- Maximum 3:1 Slope for Cover Soil

Uses & Applications:

- Golf Course Ponds
- Decorative Ponds
- Wastewater Treatment Ponds
- Landfill Caps and Cells
- Irrigation Reservoirs & Canals
- Entry Ponds
- Detention Ponds
- Stock Tanks
- Athletic Field Construction

- **Project Photo: Grasmere Lake/Washington Park Denver, CO**
- **Lake Lining**
- **777,000 SF PVC - 30 Mil**





PVC

Product Data Sheet

Certified Properties	ASTM	PVC 10	PVC 20	PVC 30	PVC 40	PVC 50	PVC 60
Thickness	D-5199	10 +/- 0.5 mil 0.25 +/- .013mm	20 +/- 1 mil 0.51 +/- .03 mm	30 +/- 1.5 mil 0.76 +/- .04 mm	40 +/- 2 mil 1.02 +/- .05 mm	50 +/- 2.5 mil 1.27 +/- .06 mm	60 +/- 3 mil 1.52 +/- .08 mm
Tensile Properties ³							
Strength at Break	D-882 ⁴ Min	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	4%	4%	3%	3%	3%	3%
Low Temperature Impact	D-1790 ⁴ 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	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 Percent Loss (max)	D-1239 ⁴ Max Loss	0.15%	0.15%	0.15%	0.20%	0.20%	0.20%
Average Plasticizer Molecular Weight	D-2124 ^{4,5}	400	400	400	400	400	400
Volatile Loss Percent Loss (max)	D-1203 ⁴ Max Loss	1.5%	0.9%	0.7%	0.5%	0.5%	0.5%
Soil Burial							
Break Strength	G160 ⁴ Max Chg	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 3.47 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 20kN/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

Notes:

1. PGI 1104 replaces PGI 1103 Specification effective 1/1/04.
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.
4. 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.