

PÖÜÒ 300

Cross-Laminated HDPE

Product Description

HDPE 300 is produced by cross laminating two sheets of high density polyethylene, creating additional strength for optimum puncture and tear resistance. This unique process aligns the molecular structure of the high density polyethylene which intensifies the sheet's resilience lengthwise. By laminating these two layers of stretched film across the bias, the sheet has equal strength in all directions.

Product Use

HDPE 300 has superior moisture retarder characteristics that greatly reduce moisture migration through concrete foundation walls and under slab applications. An outstanding U.S. perm rating of .045 is a result of high density resin and the cross lamination process. The individual three layers assure a pinhole free barrier. Not only will the rugged qualities of HDPE 300 withstand the most demanding conditions, it will not rot or mildew and is resistant to most chemicals, salt and acids. This product will remain flexible at 70 degrees below zero and can be used in heat up to 180 degrees above zero.

Size & Packaging

HDPE 300 is available in standard sizes up to 20' wide. Extra large sizes are available upon request. All panels are accordion folded every 4 to 5 feet and tightly rolled on a heavy-duty core for ease of handling and time-saving installation. Layflat roll configurations are also available.



Fumigation Cover

Product

Part

HDPE 300 3W

APPLICATIONS

Vapor Retarders

Cargo Covers

Silage Covers

Insulation Membranes

Wood Product Covers

Fumigation Covers

Temporary Walls



PROPERTIES	TEST METHOD	ΠΡΟΪΟΝ	
		Imperial	Metric
APPEARANCE		Translucent/White	
% LIGHT TRANSMISSION	ASTM D1003	41%	41%
THICKNESS, NOMINAL		3 mil	0.076 mm
WEIGHT		14 lbs/MSF	68 g/m ²
*1" TENSILE STRENGTH	ASTM D882	6151 psi	42.4 mPa
ELONGATION AT BREAK	ASTM D882	224%	224%
*GRAB TENSILE	ASTM D751	66 lbf	294 N
*TONGUE TEAR	ASTM D751	15 lbf	67 N
*TRAPEZOID TEAR	ASTM D4533	27 lbf	120 N
MULLEN BURST	ASTM D751	50 psi	344 kPa
MAXIMUM USE TEMPERATURE		180°F	82°C
MINIMUM USE TEMPERATURE		-70°F	-57°C
PERMEABILITY			
WVTR	ASTM E96 Method A	0.02 g/100in ² /day	0.31 g/m ² /day
	ASTM E96 Method E	0.15 g/100in ² /day	2.33 g/m ² /day
PERM RATING	ASTM E96 Method A	0.045 Perms grains/(ft ² ·hr·in·Hg)	0.03 Perms g/(24hr·m ² ·mm Hg)
	ASTM E96 Method E	0.07 Perms grains/(ft ² ·hr·in·Hg)	0.05 Perms g/(24hr·m ² ·mm Hg)
O ₂ PERMEABILITY	*ASTM D1434	85 cc/100in ² /day @77°F	1318 cc/100in ² /day @25°F

*Tests are an average of machine direction and transverse directions.

Certified under ASTM E154 resistance to decay test. Test results show no degradation of performance or tensile properties after 259 days of testing. Complies with federal specifications UU-B-790a TYPE 1 GRADE A.

HDPE 300 is a three layer laminate containing no adhesives. The layers consist of uniaxially oriented high density polyethylene. These layers are laminated together with molten polyethylene. Thermal and UV additives increase the longevity of the product.

Note: To the best of our knowledge, unless otherwise stated, these are typical property values and are intended as guides only, not as specification limits. Chemical resistance, odor transmission, longevity as well as other performance criteria is not implied or given and actual testing must be performed for applicability in specific applications and/or conditions. GEOCHEM, INC. MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.