



PipeSak® Pipeline Products

RockStop™ Rockshield Specifications

Physical Property Data Minimum Thickness – 14mm RockStop™ Rockshield

Property	Equivalent Test Method	Typical Test Result ¹
Impact Strength	ASTM G13 (modified) ²	No failures for 6” rock
Puncture Strength	ASTM D6241	7,496 lbs [33,345 N]
Tear Strength	ASTM D4533	1,385 lbs/in [243 N/mm]
Compressive Strength	ASTM D1621	2.55 lbs / in ² [17.6 kPa]
Diaphragm Burst Test	ASTM D3787	2,820 lbs [12,544 N]
Grab Strength	ASTM D4632	2,113 lbs [9,410N] & 86% Elongation at break
Low Temperature Brittleness	ASTM D746	>-65° F [>-54° C] (Exceeded chamber capacity)
Weight	ASTM D5261	0.41 lbs / sqft [2,000 g/m ²]
Cathodic Protection	ASTM G95	No inhibiting effect
UV Resistance	ASTM 4355	70% at 500 hours
Melt Temperature	Custom	356° F [180° C]
Wrap Test	Custom at -58° F	Fully wrapped around 2” OD pipe (dry)
Leach Test	EPA Method 8270E	Detection limits not exceeded
Permeability	ASTM D2434 (modified) ³	2.03 darcy [2.0 x 10 ⁻⁸ cm ²]

¹ Testing results are average values, and should not be taken as a guarantee of performance.

² Test modified to include 50 lbs of rocks, 1.5”,3”,4” and 6” in diameter, 10 drops each. Drop consisted of releasing 50lb+ of stone from a height of 6 feet onto an FBE coated pipe protected by RockStop rockshield. The pipe was inspected using a holiday detector after each drop.

³ RockStop™ pipeline wrap has a permeability within typical ranges of clean sands. Permeability testing done in accordance with ASTM 2434M as ASTM 4491 is not viable for the thickness of RockStop™ material.

RockStop™ pipeline wrap has an average R value of 1.709 per ASTM C518.

