



PipeSak® Pipeline Products

# RockStop® Rockshield Specifications

4" to 20" O.D. Pipelines

## Physical Property Data Minimum Thickness – 3/8" (9.5mm) RockStop® Rockshield

Property	Equivalent Test Method	Typical Test Result <sup>1</sup>
<b>Impact Strength</b>	ASTM G13 (modified) <sup>2</sup>	No failures on 6" rock
<b>Puncture Strength</b>	ASTM D6241	2,900 lb. [12,900 N]
<b>Tear Strength</b>	ASTM D4533	1,326 lb./in [238 N/mm]
<b>Compressive Strength</b>	ASTM D1621	1.0 lb./ in <sup>2</sup> [6.9 kPa]
<b>Diaphragm Burst Test</b>	ASTM D3787	2,712 lb. [12,066 N]
<b>Grab Strength</b>	ASTM D4632	476 lb. [2,117N] & 200% Elongation at break
<b>Low Temperature Brittleness</b>	ASTM D746	>-65° F [>-54° C] (Exceeded chamber capacity)
<b>Weight</b>	ASTM D5261	0.33 lb. / ft <sup>2</sup> [1,600 g/m <sup>2</sup> ]
<b>Cathodic Protection</b>	ASTM G95	No inhibiting effect
<b>UV Resistance</b>	ASTM 4355	70% at 500 hours
<b>Melt Temperature</b>	Custom	356° F [180° C]
<b>Wrap Test</b>	Custom at -58° F	Fully wrapped around 2" OD pipe (dry)
<b>Leach Test</b>	EPA Method 8270E	Detection limits not exceeded
<b>Permeability</b>	ASTM D4491	2750 gal/ft <sup>2</sup> /day [0.13 cm/s]

<sup>1</sup> Testing results are average values and should not be taken as a guarantee of performance.

<sup>2</sup> Test modified to include 50 lb. 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.

