

# Foil-Scrim-MPET(FSM)

# FSM-73121

## Product Application

A Foil Scrim Kraft(FSM) insulation facing is made of lightweight aluminum foil that is layered against a fiberglass scrim and then paired with a final layer of metallized polyester. This is then all laminated together using a flame-retardant adhesive.

FSM insulation is mainly used for winding flexible pipe insulation.

## Facing Composition

Facing Composition	Description	Value(English)	Value(Metric)
Foil	Aluminum	0.28 mil	7 micron
Reinforcing - MD	Fiberglass	2 /inch	8 /100mm
Reinforcing - XD	Fiberglass	3 /inch	12 /10mm
Adhesive	Glue	-----	-----
MPET Film	Metallized Polyester	0.48 mil	12 micron

## Typical Physical Properties

Physical Properties	Test Method	Value(English)	Value(Metric)
Basis Weight	Scale	8.2 lbs/ 1000ft <sup>2</sup>	40 gsm
Permeance (WVTR)	ASTM E96,Procedure A	0.02 perm	1.15 ng/N.s
Tensile Strength - MD	ASTM D828	14.8 lbs/ln	65 N/25mm
Tensile Strength - XD	ASTM D828	11.4 lbs/ln	50 N/25mm
Burst Strength	ASTM D774	31.7 psi	22 N/cm <sup>2</sup>
Low Temperature Resistance	ASTM D1790 4hrs @-40°F(-40°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	ASTM D1790 4hrs @+240°F(+116°C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Dimensional Stability	ASTM D1204@°150F(65°C)	Less than 0.5%	Less than 0.5%
Emissivity	ASTM E408	0.03	0.03

**Available Roll Width: 1.0m,1.2m,1.25m Available Roll Length: 50m,60m,200m,or be customized**

## Remarks:

1. The data above are typical values only, and should not be used for specifications purpose.
2. Tolerance: Weight and Thickness:  $\pm 10\%$ ; Width:  $\pm 3\text{mm}$ ; Length: Log Roll:  $\pm 0.3\text{m}$ , Jumbo Roll  $\pm 0.5\%$ .
3. The products should be stored at room temperature, kept away from wet and heat source.
4. The users should take test and do trial-application on the above products before coming into application so as to witness and ensure suitability for their special purpose and technique.

## Hangzhou DONFOIL Insulation Co.,Ltd

Xindeng Industrial Park,Fuyang, Hangzhou, Zhejiang, China

[www.donfoil.com](http://www.donfoil.com) +86 18868836898 info@donfoil.com

Contact Donfoil for a complete list of products or a free A4 size sample