

Flame Retardant Foil-Facing Kraft Paper



KT's flame retardant grade Foil-Scrim-Kraft Facing with 3-way scrim and 60 gsm is mainly used as a facing & vapor of duct wrap insulation that requires good fire rating. It is also suitable for other insulation applications where the general use of vapor retarder is also needed. The paper can be used for radiant barrier applications due to its low emissivity.

Typical Physical Properties

Physical Properties	Test Method	Value (English)	Value (Metric)
Basis Weight	Scale	17.4 lbs / 1000 ft ²	85 gsm
Permeance (WVTR)	ASTM E96, Procedure A	0.1 perm	5.75 ng/N.s
Tensile Strength - MD	ASTM D828	27.3 lbs/In	120 N/25mm
Tensile Strength - XD	ASTM D828	13.6 lbs/In	60 N/25mm
Burst Strength	ASTM D774	43.5 psi	30 N/cm ²
Low Temperature Resistance	ASTM D1790 4 hrs @ -40 °F (-40 °C)	Remains Flexible No Delamination	Remains Flexible No Delamination
High Temperature Resistance	ASTM D1790 4 hrs @ +240 °F (+116 °C)	Remains Flexible No Delamination	Remains Flexible No Delamination
Dimensional Stability	ASTM D1204 @ 150F (65C)	Less than 0.5%	Less than 0.5%
Emissivity	ASTM E408	0.03	0.03

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 / 100mm
Adhesive	Flame-Retardant	-----	-----
Kraft	F/R Treated	36.6 lbs / 3000 ft ²	60gsm

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 liquid and heat source.
4. The users should do trial-application on the above products before application to ensure suitability.