

**Product Description:**

Product name	<b>MONARPERM® Fassade</b>	
Thickness (mm) (EN 1848-1)	0,440 mm	
Mass/sqr (g/m <sup>2</sup> ) (EN 1848-1)	210 g/m <sup>2</sup> (+/- 5%)	
Roll size	1,50 x 50 m	
Description	5 layer product: <ul style="list-style-type: none"> <li>• 4 layers of black co-polymer coating</li> <li>• 1 layer of white PP non-woven</li> </ul>	
Temperature stability	-40 °C to +80 °C	
Cold bend at -25°C (EN 1109)	Pass	
Dimensional stability (EN1107-1)	MD	TD
	-0,56% (+/- 0,5%)	0,26% (+/- 0,5%)
Fire classification (DIN 4102-B2)	B2 (Normal flammable)	

**Mechanical Properties:**

(MD: Machine Direction) (TD: Transverse Direction)		<b>MONARPERM® Fassade</b>	
		MD	TD
Tensile Strength (EN 12311-1)	Maximum force (N/5cm)	250 (+/- 40N)	200 (+/- 40N)
	Elongation at max force in %	45 (+/- 25%)	75 (+/- 25%)
Nail Tear Resistance (EN 12310-1)	Maximum force (N)	250 (+/- 20N)	240 (+/- 20N)

**Water Vapour Transmission:**

	<b>MONARPERM® Fassade</b>
According to (EN ISO 12572 condition C) 23°C/ 50% RH	285 g/m <sup>2</sup> – 24 hours (+/- 40 g/m <sup>2</sup> )
Sd-value in m	0,44 (+/- 0,05)

**Water tightness:**

	<b>MONARPERM® Fassade</b>
According to (EN 1928:2000)	Class W1
According to (EN 20811)	> 2 m

**Ageing properties after 1 year of free exposure in Northern Europe:**

(MD: Machine Direction) (TD: Transverse Direction)		<b>MONARPERM<sup>®</sup> Fassade</b>	
		MD	TD
Tensile Strength (EN 12311-1)	Maximum force (N/5cm)	105 (+/- 10 N)	100 (+/- 10 N)
	Elongation at max force in %	15 (+/- 10%)	90 (+/- 10%)
Water tightness (EN 1928:2000)	Class	W1	