

3M™ Flat Membrane MF-PP Series, Type 1E (R/P)

Chemical Composition	
Polymer	Polypropylene
Residual oil content	≤ 0.1%
Wetting property	Hydrophobic
Physical Properties	
Thickness	100 ± 15.0 µm (3.94 ± 0.59 mil)
Tensile strength	
Longitudinal	≥ 450 cN/15 mm
Transversal	≥ 400 cN/15 mm
Elongation at break	
Longitudinal	≥ 100%
Transversal	≥ 100%
Membrane Performance Characteristics	
Bubble point (in isopropyl alcohol, 23 °C)	2.1 ± 0.4 bar (30.5 ± 5.8 psi)
Transmembrane flow (isopropyl alcohol, 23 °C)	≥ 2.5 ml/(min cm² bar) (≥ 160.14 ml/(min ft² psi)) (≥ 1.11 ml/(min in² psi))
Available Make-up Configurations	
Rolls	

All specifications are based on 3M internal test procedures.

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