

Polyethylene Panels are a high molecular weight polyethylene thermoplastic, offering impact strength and wear resistance. The characteristic profile includes excellent chemical resistance, high strength, low moisture absorption and good sliding and non-stick properties. With FDA and (EU) No. 10/2011 approvals, this material is physiologically **safe for use in contact with food**.

Used for **WINDOR FDA** double action doors.

Standard colour: natural (white)  
Other colours available on request.

Main features:

- high molecular weight
- wear-resistant
- impact resistant
- chemical resistant
- food contact material
- average molecular weight 500,000 g/mol

Target Industries:

- food industry
- construction industry
- mining industry

	Polyethylene Panels		
	Norm	Unit	Value
<b>Weight</b>	---	g/cm <sup>3</sup>	0,95
<b>Modulus of elasticity (tensile test)</b>	DIN EN ISO 527-1	MPa	1100
<b>Tensile strength at yield</b>	DIN EN ISO 527-1	Mpa	28
<b>Elongation at yield</b>	DIN EN ISO 527-1	%	8
<b>Impact strength (Charpy)</b>	DIN EN ISO 179-1	kJ/m <sup>2</sup>	n.b.
<b>Shore D hardness</b>	DIN EN ISO 868	Shore D	66
<b>Thermal expansion (CLTE)</b>	DIN EN ISO 11359-1;2	10 <sup>-5</sup> *1/K	18
<b>Min. usage temperature</b>	---	°C	-100
<b>Max. usage temperature</b>	---	°C	+80
<b>Surface resistivity</b>	DIN IEC 60093	Ω	≥ 10 <sup>14</sup>
<b>Dielectric strength</b>	ISO 60243-1	kV/mm	44
<b>Flammability</b>	DIN 4102	---	B2