

## Compilation of technical data for LEO

The parts are made by vacuum injection with vinyl ester resin and glass mat. The technical data of these laminates are given below. The values at the lower end of the scale are given everywhere, in practice they are usually better.

	Test norm	Unit	Value RTM
<b>Glass content</b>		%	30-40
<b>Density</b>	g/m <sup>3</sup>		1.65
<b>Tensile strength</b>	DIN 53455	N/mm <sup>2</sup>	140-170
<b>Compressive strength</b>	DIN 53454	N/mm <sup>2</sup>	160
<b>Flexural strength</b>	DIN 53452	N/mm <sup>2</sup>	180-250
<b>E-Module</b>	DIN 53457	N/mm <sup>2</sup>	10-12000
<b>Notch impact strength</b>	DIN 53453	N/mm <sup>2</sup>	120-200
<b>Operating temperature</b>		°C	-40 to +100
<b>Coefficient of linear expansion</b>	DIN 52328	mm/°C	25-30x10 <sup>-6</sup>
<b>Water absorption during water storage</b>	DIN 33495	%	< 100 mg
<b>Flammability</b>	EN 45545		HL 3

Sources: aXpel composites AG / eigene Messungen, Mäder, Büfa