

## Technical Data Sheet

# Sustadur<sup>®</sup> PET WP natural

PET

### Typical characteristics

- Low moisture absorption
- High abrasion resistance
- Good dimensional stability

### Typical industries

- Wind Energy
- Electrical Industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,39
Water absorption	DIN EN ISO 62	%	0,3
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	85
Elongation at break	DIN EN ISO 527	%	15
Tensile modulus of elasticity	DIN EN ISO 527	MPa	3200
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	2
Shore hardness	DIN EN ISO 868	scale D	83
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	255
Thermal conductivity	DIN 52612-1	W / (m * K)	0,28
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	60
Service temperature, long term	Average	°C	-20 ... 115
Service temperature, short term (max.)	Average	°C	180
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	80
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		3,4
Dielectric dissipation factor (50 Hz)	IEC 60250		0,001
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10 <sup>18</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	10 <sup>16</sup>
Comparative tracking index	IEC 60112		600



	Test method	Unit	Guideline value
Dielectric strength	IEC 60243	kV / mm	20

