



## PE500 Sheet – Pressed & Planed

# Bay Plastics Datasheet

Property	Test Method	Unit	Value
Molecular weight	-	10 <sup>6</sup> g/mol	0.5
Density	DIN 53479 ISO 1183	g/cm <sup>3</sup>	0.95
Yield tension	DIN 53 455 IDO 527-1	N/mm <sup>2</sup>	27
Elongation at yield	DIN 53 455 ISO 527-1	%	9
Elongation at break	DIN 53 455 ISO 527-1	%	>600
Tensile modulus of elasticity	DIN 53 455 ISO 527-1	N/mm <sup>2</sup>	1200
Ball indentation hardness	DIN 53456 ISO 2039	N/mm <sup>2</sup>	50
Charpy impact value	DIN 53 456 ISO 179	KJ/m <sup>2</sup>	25
Attrition	Sand-slurry	-	<400
Coefficient of friction	DIN 53 375	-	0.2
Hardness shore D	DIN 53 505	-	65
Min permanent temperature	-	°C	-60
Max permanent temperature	-	°C	80
Thermal length expansion coefficient	DIN 53 752 A	K <sup>-1</sup>	1.5 – 2x10 <sup>-4</sup>
Thermal conductivity	-	E / (m x K)	0.4
Volume resistivity	DIN 53 482	Ohm x cm	>10 <sup>14</sup>
Absorption of water	DIN 53 492	mg	≥0.01
Physiologically stable	BgVV – recommendation III	-	Ja*