

## Technical Data Sheet

Material designation	<b>PS 4190</b>		
Raw material			
Material colour(s)	black		
<b>Properties</b>	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		~ 9,2 - 10 <sup>6</sup>
<b>Mechanical properties</b>			
Density	g/cm <sup>3</sup>	DIN 53479	0,96
Tensile strength	N/mm <sup>2</sup>	DIN 53455	23
Shore D hardness, 15s	D scale	DIN 53505	64 – 69
Ball indentation hardness, 30s	N/mm <sup>2</sup>	DIN ISO 2039 part 1	49
Ultimate tensile strength	N/mm <sup>2</sup>	DIN 53455	34
Elongation at break	%	DIN ISO / R 527	350
Modulus of elasticity	N/mm <sup>2</sup>	DIN 53457	700
Notched impact strength (Charpy)	kJ/m <sup>2</sup>	DIN 53453	> 70 –120
Abrasion	%	Sand slurry method	~ 65
Coefficient of friction			0,08
<b>Thermal properties</b>			
Dimensional stability under heat	°C	DIN 53461	47
Vicat softening temperature	°C	DIN 53460	79
Crystallite melting range	°C	DTA	130 ~135
Thermal conductivity at 23°C	W/m * K	DIN 52612	0,42
Specific heat at 23°C	kg/kJ * K		1,8
Coefficient of linear expansion at 23°C	K <sup>-1</sup>	DIN 53752	1,5 x 10 <sup>-4</sup>
Application temperature (min.)	°C		-100
Application temperature (constant)	°C		85
Application temperature (max.)	°C		100
<b>Electrical properties</b>			
Dielectric strength	kV/mm	DIN 53481	~ 980

Notes for the user:

Data sheet specifications are made to our today's knowledge. This information does not mean that certain properties are agreed upon or assured. Whether or not a material is suitable for a given application is the user's decision. All specifications are subject to change.

Vreden October 2005