Technical Data Sheet

Material designation	PS 4190		
Raw material			
Material colour(s)	black		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		~ 9,2 - 10^6
Mechanical properties			
Density	g/cm^3	DIN 53479	0,96
Tensile strength	N/mm^2	DIN 53455	23
Shore D hardness, 15s	D scale	DIN 53505	64 – 69
Ball indentation hardness, 30s	N/mm^2	DIN ISO 2039 part 1	49
Ultimate tensile strength	N/mm^2	DIN 53455	34
Elongation at break	%	DIN ISO / R 527	350
Modulus of elasticity	N/mm^2	DIN 53457	700
Notched impact strength (Charpy)	kJ/m^2	DIN 53453	> 70 –120
Abrasion	%	Sand slurry method	~ 65
Coefficient of friction			0,08
Thermal properties			
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^{-1}	DIN 53752	1,5 x 10^{-4}
Application temperature (min.)	°C		-100
Application temperature (constant)	°C		85
Application temperature (max.)	°C		100
Electrical properties			
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 subjekt to change.

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Wefapress Beck + Co. GmbH · Up de Hacke 21/31 · D-48691 Vreden
Phone: 0049-2564-9329-0 · Fax: 0049-2564-932945 · Internet: www.wefapress.com · Email: info@wefapress.com