

# Technical data sheet

## PA 6 G black

<b>General properties</b>				
Material designation	PA 6 G black			
Material colour(s)	black (6000)			
Raw material	PA 6   Polyamide 6			
Molecular weight (Average molar mass)	-			
<b>Mechanical properties</b>		<b>Unit</b>	<b>Test method</b>	<b>Value</b>
Density	g/cm <sup>3</sup>	DIN EN ISO 1183	1,14	
Tensile strength	MPa	DIN EN ISO 527	80	
Shore D hardness, 15s - Value	Skala D	DIN EN ISO 868	81	
Ball indentation hardness, 30s - Value	MPa	DIN ISO 2039 Teil 1	160	
Ultimate tensile strength	MPa	DIN EN ISO 527	80	
Elongation at break	%	DIN EN ISO 527	> 50	
Modulus of elasticity	MPa	DIN EN ISO 527	3100	
Notched impact strength (Charpy)	kJ/m <sup>2</sup>	DIN EN ISO 179	> 43	
Wear resistance	%	Sand Slurry method	-	
Coefficient of friction (to steel)	μ		0,38	
<b>Thermal properties</b>		<b>Unit</b>	<b>Test method</b>	<b>Value</b>
Dimensional stability under heat	°C	DIN 53461	95	
Vicat softening temperature	°C	DIN EN ISO 306	-	
Crystalline melting range	°C	DIN EN ISO 11357	218	
Thermal conductivity at 23°C	W / (K * m)	DIN 52612	0,23	
Specific heat at 23°C	kJ / (K * Kg)		-	
Coefficient of linear expansion at 23°C	10 <sup>-5</sup> * (1/K)	DIN ISO 11359	8	
Fire behaviour		UL 94	HB	
Application temperature (min.)	°C		- 40	
Application temperature (constant)	°C		+ 100	
Moisture absorption	%		~ 2,2	
<b>Electrical properties</b>		<b>Unit</b>	<b>Test method</b>	<b>Value</b>
Specific volume resistance	Ω * cm	IEC 60093	10 <sup>12</sup>	
Specific surface resistance	Ω	IEC 60093	10 <sup>10</sup>	
Dielectric strength	KV/mm	IEC 60243	40	
<b>Conformity with food secure regulations</b>				
FDA	-			
EU	-			

Our employees are available to answer all of your questions.

You can find additional information on our material qualities on the internet at [www.wefapress.com/en/materials](http://www.wefapress.com/en/materials).

All stated information reflects our current knowledge. No agreement or guarantee regarding specific characteristics can be derived from the information contained in the datasheets. Each user is responsible for deciding on the suitability of a material for a specific purpose. The data supplied are subject to change.

The materials labelled as a "Food Secure Product" (FSP) comply with the provisions of Regulations (EU) No. 10/2011 and No. 1935/2004.