

Technical data sheet

FlexGuard

General properties				
Material designation	FlexGuard			
Material colour(s)	black (6000)			
Raw material	Rubber graphite			
Molecular weight (Average molar mass)	-			
Mechanical properties		Unit	Test method	Value
Density	g/cm ³	DIN EN ISO 1183	1,6	
Tensile strength	kJ/m ²	DIN EN ISO 527	-	
Shore D hardness, 15s - Value	Skala D	DIN EN ISO 868	80	
Ball indentation hardness, 30s - Value	MPa	DIN ISO 2039 Teil 1	>57	
Ultimate tensile strength	MPa	DIN EN ISO 527	-	
Elongation at break	%	DIN EN ISO 527	-	
Modulus of elasticity	MPa	DIN EN ISO 527	>1300	
Notched impact strength (Charpy)	kJ/m ²	DIN EN ISO 179	<20	
Wear resistance	%	Sand Slurry method	~85	
Coefficient of friction (to steel)	μ	-	0,12	
Thermal properties		Unit	Test method	Value
Dimensional stability under heat	°C	DIN 53461	-	
Vicat softening temperature	°C	DIN EN ISO 306	-	
Crystalline melting range	°C	DIN EN ISO 11357	-	
Thermal conductivity at 23°C	W / (K * m)	DIN 52612	-	
Specific heat at 23°C	kJ / (K * Kg)	DIN 52612	-	
Coefficient of linear expansion at 23°C	10 ⁻⁵ * (1/K)	DIN 53752	< 1,5	
Fire behaviour	-	UL 94	HB	
Application temperature (min.)	°C	-	-	
Application temperature (constant)	°C	-	+ 120	
Moisture absorption	%	-	< 0,01	
Electrical properties		Unit	Test method	Value
Specific volume resistance	Ω * cm	DIN 53482	10 ⁷	
Specific surface resistance	Ω	DIN 53482	10 ⁷	
Dielectric strength	KV/mm	DIN 53481	-	
Conformity with food secure regulations				
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.

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.