



## Wefapress<sup>®</sup> A4<sup>®</sup> G

**Standard colour(s):** multicolour

**Special colour(s):** –

**Fields of application:**

- transport and conveyor systems
- production of prefabricated concrete components
- harbour construction
- coal-fired power stations
- bunker linings

**Properties:**

- good value for money
- low abrasion
- good sliding properties
- good mechanical properties

Material designation		A4 <sup>®</sup> G	
Raw material	PE-UHMW		
Material colour(s)	multicolour		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		
Mechanical properties			
Density	g/cm <sup>3</sup>	DIN 53479	0,95
Tensile strength	N/mm <sup>2</sup>	DIN 53455	18
Shore D hardness, 15s - Value	Skala D	DIN 53505	64 – 68
Ball indentation hardness, 30s - Value	N/mm <sup>2</sup>	DIN ISO 2039 Part 1	40
Ultimate tensile strength	N/mm <sup>2</sup>	DIN 53455	37
Elongation at break	%	DIN ISO / R 527	max. 200
Modulus of elasticity	N/mm <sup>2</sup>	DIN 53457	900
Notched impact strength (Charpy)	kJ/m <sup>2</sup>	DIN 53453	> 30 – 110
Abrasion	%	Sand slurry method	~ 150
Coefficient of friction	μ		0,1 – 0,2
Thermal properties			
Dimensional stability under heat	°C	DIN 53461	47
Vicat softening temperature	°C	DIN 53460	79
Crystalline melting range	°C	DTA	130 – 135
Thermal conductivity at 23 °C	W/ (K * m)	DIN 52612	0,42
Specific heat at 23 °C	kJ/ (K * Kg)		1,8
Coefficient of linear expansion at 23 °C	10 <sup>-5</sup> * (1/K)	DIN 53752	20
Fire behaviour		UL 94	HB
Application temperature (min.)	°C		- 200
Application temperature (constant)	°C		+ 80
Moisture absorption	%		< 0,01
Electrical properties			
Specific volume resistance	Ω * cm	DIN 53482	< 10 <sup>15</sup>
Surface resistance	Ω	DIN 53482	< 10 <sup>13</sup>
Dielectric strength	kV/mm	DIN 53481	40
Dielectric constant at 50 Hz		DIN 53485	