



## Wefapress® CeradurXL (DIN 16972 TG1)

Standard colour(s): grey (RAL 7037)  
 Special colour(s): –  
 Fields of application: • paper industry

- Properties:
- suitable for use in very abrasive environments
  - low abrasion
  - good dry running conditions
  - low abrasion on wire

Material designation		CeradurXL	
Raw material	PE-UHMW		
Material colour(s)	grey		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		~ 9,2 Mio.
Mechanical properties			
Density	g/cm <sup>3</sup>	DIN 53479	1,008
Tensile strength	N/mm <sup>2</sup>	DIN 53455	23
Shore D hardness, 15s - Value	Skala D	DIN 53505	64 – 69
Ball indentation hardness, 30s - Value	N/mm <sup>2</sup>	DIN ISO 2039 Part 1	48
Ultimate tensile strength	N/mm <sup>2</sup>	DIN 53455	35
Elongation at break	%	DIN ISO / R 527	350
Modulus of elasticity	N/mm <sup>2</sup>	DIN 53457	~ 650
Notched impact strength (Charpy)	kJ/m <sup>2</sup>	DIN 53453	> 80 – 105
Abrasion	%	Sand slurry method	~ 75
Coefficient of friction	μ		~ 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)		~ 0,60
Specific heat at 23 °C	kJ/ (K * Kg)		1,8
Coefficient of linear expansion at 23 °C	10 <sup>-5</sup> * (1/K)	DIN ISO 11359	9
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	IEC 60093	
Surface resistance	Ω	IEC 60093	
Dielectric strength	kV/mm	IEC 60243	45