

## Product information

### Wefapress CeradurXL

CeradurXL is an ultrahigh molecular weight low pressure polyethylene with a molecular weight of approx. 9.2 million g/mol. By the use of a cross-linking agent the molecular chain in the polymeric has been elongated which improves the wear behaviour towards the wire. CeradurXL is especially qualified for line speed up to 1200m/min.

The characteristics of CeradurXL are as follows:

- high wear resistance
- good dry running conditions
- low abrasion on wire



Standard colours: grey (RAL 7037)

Special colours: --

Form of delivery: only parts according to drawing

Finished parts: on request

Fields of application: 

- paper industry

## Technical Data Sheet

Material designation	CeradurXL		
Raw material	UHMW-PE		
Material colour(s)	grey		
<b>Properties</b>	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		~ 9.2 Mill.
<b>Mechanical properties</b>			
Density	g/cm <sup>3</sup>	DIN 53479	0.97
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
<b>Thermal properties</b>			
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/ (K * m)	DIN 52612	~ 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 53752	1 * 10 <sup>-4</sup>
Fire behaviour		UL 94	HB
Application temperature (min.)	°C		- 200
Application temperature (constant)	°C		+ 80
Moisture absorption	%		< 0.01
<b>Electrical properties</b>			
Specific volume resistance	Ω * cm	DIN 53482	
Surface resistance	Ω	DIN 53482	
Dielectric strength	kV/mm	DIN 53481	45
Dielectric constant at 50 Hz		DIN 53485	

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 subject to change.

Vreden, 04.06.07/dv