



Wefapress® Flex 8800 (DIN16972 TG1)



Standard colour(s): sapphire blue (RAL 5003)
Special colour(s): violet blue (RAL 5000)
Fields of application: • lining

Properties: • very low abrasion
 • good sliding properties
 • best bending- and impact strength

Material designation		Flex 8800	
Raw material	PE-UHMW		
Material colour(s)	sapphire blue		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		9,2 Mio.
Mechanical properties			
Density	g/cm ³	DIN 53479	0,960
Tensile strength	N/mm ²	DIN 53455	23
Shore D hardness, 15s - Value	Skala D	DIN 53505	64 – 69
Ball indentation hardness, 30s - Value	N/mm ²	DIN ISO 2039 Part 1	48
Ultimate tensile strength	N/mm ²	DIN 53455	> 40
Elongation at break	%	DIN ISO / R 527	350
Modulus of elasticity	N/mm ²	DIN 53457	~ 650
Notched impact strength (Charpy)	kJ/m ²	DIN 53453	> 80 – 105
Abrasion	%	Sand slurry method	~ 70
Coefficient of friction	μ		~ 0,1
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	~ 0,6
Specific heat at 23 °C	kJ/ (K * Kg)		1,8
Coefficient of linear expansion at 23 °C	10 ⁻⁵ * (1/K)	DIN 53752	10
Fire behaviour		UL 94	HB
Application temperature (min.)	°C		- 260
Application temperature (constant)	°C		+ 80
Moisture absorption	%		< 0,01
Electrical properties			
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	