



Wefapress® St 9100 Oil + (DIN 16972 TG1)

Standard colour(s): black grey
Special colour(s): saphire blue (RAL 5003)
 purple violet (RAL 4007)
 pale green (RAL 6021)
Fields of application: • transport- and conveyor systems

Properties:

- extremely self-lubricating
- low abrasion
- best sliding properties
- excellent noise reduction
- physiologically harmless

Material designation		St 9100 Oil +		
Properties	Unit	Test method		Value
Molecular weight (average molar mass)				~ 9,2 Mio.
Mechanical properties				
Density	g/cm ³	DIN 53479		0,93
Tensile strength	N/mm ²	DIN 53455		23
Shore D hardness, 15s - Value	Skala D	DIN 53505		60 – 65
Ball indentation hardness, 30s - Value	N/mm ²	DIN ISO 2039 Part 1		30 – 35
Ultimate tensile strength	N/mm ²	DIN 53455		35
Elongation at break	%	DIN ISO / R 527		≥ 200
Modulus of elasticity	N/mm ²	DIN 53457		700
Notched impact strength (Sharry)	kJ/m ²	DIN 53453		≥ 80
Abrasion	%	Sand slurry method		75
Coefficient of friction	μ			0,09
Thermal properties				
Dimensional stability under heat	°C	DIN 53461		47
Vicat softening temperature	°C	DIN 53460		80
Crystalline melting range	°C	DTA		135 – 138
Thermal conductivity at 23 °C	W/ (K * m)			~ 0,4
Specific heat at 23 °C	kJ/ (K * Kg)			1,8
Coefficient of linear expansion at 23 °C	10 ⁻⁵ * (1/K)	DIN ISO 11359		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	IEC 60093		≥ 10 ¹⁵
Surface resistance	Ω	IEC 60093		≥ 10 ¹³
Dielectric strength	kV/mm	IEC 60243		45
On request, available with:				
• approved for foodstuffs according to FDA Guidelines 21CFR177.1520 and 21 CFR178.3297				