

## Physical properties      Formatron CTF

### Product characteristics

- Extremely high wear resistance
- Excellent sliding properties
- Low „stick-slip“ effect

### Typical fields of application:

- Conveyor technology
- Mechanical engineering
- Vehicle construction

General properties	Test method	Unit	Value
Color			nature
Density	DIN EN ISO 1183-1	g/cm <sup>3</sup>	1.52
Water absorption	DIN EN ISO 62	%	0.65
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	50
Elongation at break	DIN EN ISO 527	%	16
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2500
Notched impact strength (charpy)	DIN EN ISO 179	kJ/m <sup>2</sup>	4.0
Ball indentation hardness	DIN EN ISO 2039-1	Mpa	120
Shore hardness	DIN EN ISO 868	scale D	80
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	165
Thermal conductivity	DIN 52612-1	W / (m*K)	-
Thermal capacity	DIN 52612	kJ / (kg *K)	-
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> K <sup>-1</sup>	120
Service temperature, long term	Average	°C	-50 ... 100
Service temperature, short term (max.)	Average	°C	140
Heat deflection temperature	DIN EN ISO 75, method A	°C	98
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		3.7
Dielectric dissipation factor (50Hz)	IEC 60250		0.002
Volume resistivity	IEC 60093	Ω*cm	10 <sup>15</sup>
Surface resistivity	IEC 60093	Ω	-
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV/mm	33