

DATA SHEET

Oil collector tube type ST – special plastic -

1. Dimension

Bore-Ø	Thickness	External-Ø	Tolerance
13,0 mm	3,25 mm	19,5 mm	+/- 0,1 mm

2. Temperature resistance

Recommended operating temperature: -20° C to +40° C

Maximum limit temperature: -40° C to +85° C

3. Mechanical material properties

Material: food safe / clear

<i>Performance</i>	<i>Unit</i>	<i>Value</i>	<i>Test standard</i>
Hardness	Shore A	87	DIN 53505
Density	g/cm ³	1,12	DIN 53497
Tensile strength	N/mm ²	45	DIN 53504
Elongation at break	%	600	DIN 53504
Abrasion	mm ³	25	DIN 53516
Tear growth resistance	N/mm	70	DIN 53515
Compression set	% (23°C/70h)	25	DIN 53517
Compression set	% (70°C/24h)	45	DIN 53517

4. Electrical material properties

Tracking	CTI	600	DIN 50014
Electric strength	E_d (KV/mm)	40	DIN 53481
Surface resistance	R_{oA} (Ω)	10^{11}	DIN 53482
Dielectric constant			DIN 53483
50 HZ		8,0	
10^3 HZ		7,5	
10^6 HZ		6,0	

5. Permeations value DIN 53536

Medium	Permeation coefficient $Q[m^2/(s \times Pa)] \times 10^{-18}$
Ar	9
CH ₄	14
CO ₂	180
H ₂	60
He	40
N ₂	5
O ₂	16
Water vapour permeability	DIN 53122 g/(m ² x d)
Thickness 1 mm	21

The material equates:

- Guideline 90/128 EWG (D)
- Synoptic-Document Nr. 7 (EWG)
- FDA directive 21 CFR 177.1680 (USA)
- FDA directive 21 CFR 175.105 (USA)
- FDA directive 21 CFR 177.2600 (USA)