

Sample accompanying document for material testing of CIPP

☐ Initial test

☐ Repeat test, for test report _____

Sampling information

Monitoring by		Sampling		Confirmation of sampling	
Company	Name	Date	Time	Name	Signature

Sample identification

Client Material testing		Material ID	
Owner		Channel designation	
Building project		Sample designation	
Executing company		Date of installation	
Liner	Manufacturer	Condition of old pipe	☐ I ☐ II ☐ III
	Type		
Material	Resin	Sampling location	☐ Channel ☐ Start ☐ End ☐ Intermediate
	Carrier		
Pipe geometry	☐ Circle DN ☐ Egg	Sampling position	☐ Top ☐ Middle ☐ Bottom

Material tests to be carried out

Requested limit values

☐ Watertightness according to DWA-A 143-3, chapter 7.2.9	
☐ Three-point bending test according to DIN EN ISO 11296-4 Annex B, to determine flexural modulus of elasticity E , bending stress at first fracture σ_b , composite wall thickness e and total wall thickness h	$E \geq$ MPa $\sigma_b \geq$ MPa $e \geq$ mm $h \geq$ mm
☐ Initial specific ring stiffness according to DIN EN 1228, to determine the circumferential modulus of elasticity E_U and the initial ring stiffness S_0	$E_U \geq$ MPa $S_0 \geq$ N/m ²
☐ 24-hour creep test based on ☐ DIN EN ISO 899-2 (segment) or ☐ DIN EN 761 (ring)	$Kn_{24h} \leq$ %
☐ Residual styrene monomer content according to ☐ DIN 53394-2 or ☐ ISO 4901, based on the total weight of the sample based on the resin content (only in combination with the calcination method)	$w_{total} \leq$ % $w_{resin} \leq$ %
☐ DSC measurement according to DIN EN ISO 11357-2, to determine the 1st and 2nd glass transition temperature	$T_{g1} \geq$ °C $T_{g2} \geq$ °C
☐ DMA according to ISO 6721-5, determination of storage modulus E' at room temperature	$E' \geq$ MPa
☐ Spectral analysis based on ASTM D5576 using FT-IR spectroscopy	
☐ Calcination method according to DIN EN ISO 1172, for determining resin, glass and filler content	Glass % Filler %
☐ Density measurement according to DIN EN ISO 1183-1	$\rho =$ g/cm ³
☐ Microscopy for determination of the wall structure	

Note


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SBKS sample ID

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