

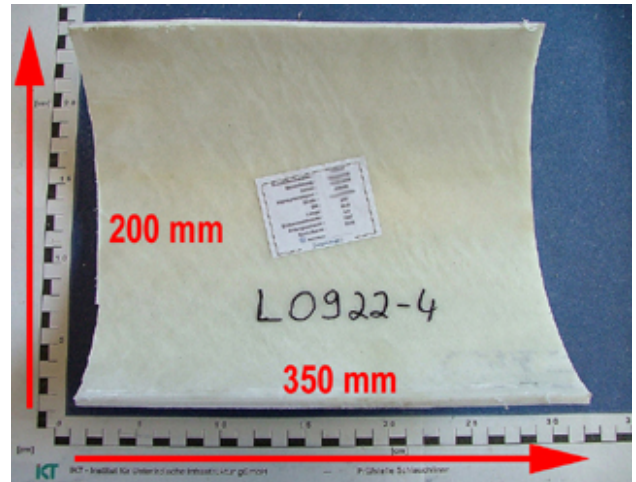
CIPP liners: Site samples

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IKT is accredited with the
DAkkS National Accreditation
Body for tests on CIPP liners
and plastics

A **representative sample** of an installed liner needs to be taken on-site before testing in the IKT laboratory. Samples of CIPP liners which are cured by UV light ("UV-curing liners") should be packed in light-tight film or foil before being taken out of the manhole.



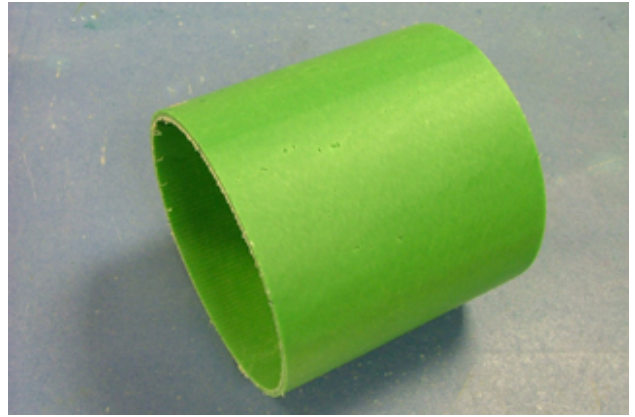
Site sample of CIPP liner: 200 mm x 350 mm

CIPP liners larger than DN 200

The necessary dimensions of such liner samples are:

- Total wall thickness **up to 10 mm**:
Sample must measure not less than 200 mm x 350 mm
- Total wall thickness **greater than 10 mm**:
 - Circumferential direction: 20 x total wall thickness
 - Longitudinal direction: 350 mm

CIPP liners up to DN 200 and sewer lateral liners



Sewer lateral liner site sample

A complete circular ring should be taken for the vertical-compression test if on-site circumstances permit this.

Necessary sample length:

Pipe diameter + 50 mm

Examples:

- Pipe DN 150: Sample length = 200 mm
- Pipe DN 200: Sample length = 250 mm


DSC analysis



Sample for DSC analysis: 20 mm

diameter necessary

A round liner sample of approx. **20 mm diameter** is sufficient as a sample for DSC analysis performed on epoxy resins.

IKT gGmbH Exterstrich 1 D-15806 Gehrshausen T: +49 203 17905-0 F: +49 203 17905-86		APS Sample data sheet (Inliner Testing Institutes Workgroup) for materials testing of CIPP liners			
<input type="checkbox"/> Initial test		<input type="checkbox"/> Repeat test		to Test Report No.: _____	
Details of sampling					
Supervised by (Name): _____		Sampling Date: _____ Time: _____		Sampling confirmed (competent management personnel) Block capital: _____ Signature: _____	
Specimen identification					
Client material-binding Client: _____		Material ID: _____			
Construction project: _____		Line designation: _____			
Company performing Manufacture (CIPP): _____		Specimen designation: _____			
Material: _____		Date of installation: _____		Condition of old pipe: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III	
Pipe geometry: <input type="checkbox"/> Round <input type="checkbox"/> Flat		Sampling point: _____		Sampling position: <input type="checkbox"/> Top <input type="checkbox"/> Side <input type="checkbox"/> Bottom	
Required short-term properties as per client's information					
Bending modulus of elasticity E_{BMP} [MPa]		Circular mod. of elast. E_c [MPa]			
Tensile strength $\sigma_{tensile}$ [MPa]		Initial ring stiffness S_0 [kN/m]			
Radially load bearing wall thickness t_{wall} [mm]		Max. creep strain ϵ_{cr} [%]			
Reduction factor for continuous loads A_r		Density ρ [g/cm³]			

Sample data sheet

Sample data sheet Materials testing of CIPP liners

Please enclose this form when you send us your samples. This ensures that your sample can be correctly identified.

Please complete a sample data sheet for each individual site sample you send us.

Sample data sheet for CIPP liners

To
IKT - Institute for Underground Infrastructure
Exterbruch 1
45886 Gelsenkirchen
Germany

by e-mail: CIPP@ikt.institute



Please send us an offer for testing CIPP liner samples

Name of project site: _____
Expected number of specimens: _____
Expected period of project site: _____

Request for quotation CIPP
liners

Request for quotation Materials testing of CIPP liners

Do you require standard or expanded-scope tests?

We will provide a quotation tailored to your needs, to ensure that your QA requirements are met.

Request for quotation CIPP liners



CIPP liner test standards

CIPP liner test standards

The minimum scope of testing for CIPP liners consists of the three-point bending test for determination of modulus of elasticity and bending stress, and the water tightness test.

Further tests are available, as defined in the ZTV Materials Testing (CIPP liner test standards), which make it possible to determine the quality of CIPP liners even more precisely.

CIPP liner test standards

Taking of a sample



CIPP liner: Taking a sample in a manhole

Contact



The IKT is a DIBt-accredited

test centre for building
products

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