

Initial test **Repeat test** to Test Report No.: _____

Details of sampling

Supervised by (Name)	Sampling		Sampling confirmed (company/site management performing)	
	Date	Time	Block capitals	Signature

Specimen identification

Client material-testing			Material ID			
Client			Line designation			
Construction project			Specimen designation			
Company performing			Date of installation			
Manufacturer (CIPP)			Condition of old pipe	<input type="radio"/> I	<input type="radio"/> II	<input type="radio"/> III
Material	Resin	Carrying mat.	Sampling point	<input type="radio"/> Pipe	<input type="radio"/> End manhole	<input type="radio"/> Intern. manhole
	<input type="radio"/> Round			<input type="radio"/> Crown	<input type="radio"/> Side zone	<input type="radio"/> Base
Pipe geometry	<input type="radio"/> Egg		Sampling position	<input type="radio"/> Crown	<input type="radio"/> Side zone	<input type="radio"/> Base

Required short-term properties as per client's information

Bending modulus of elasticity E_f [MPa]		Circumf. mod. of elast. E_U [MPa]	
Bending stress at initial fracture σ_{fB} [MPa]		Initial ring stiffness S_0 [N/m ²]	
Statically load-bearing wall thickness h [mm]		Max. creep tendency K_{n24} [%]	
Reduction factor for continuous loads A_1		Density ρ [g/cm ³]	

Test results (please tick tests to be performed!)

Note: 1 MPa = 1 N/mm²

Bending mod. of elast., bending stress as per
 DIN EN ISO 178/ DIN EN 13566, Part 4 DIN EN ISO 11296, Part 4

24h creep tendency with ref. to
 DIN EN ISO 899, Part 2

<input type="checkbox"/>	Date of test	E_f [MPa]	σ_{fB} [MPa]	h [mm]	<input type="checkbox"/>	K_{n24} [%]
				Test direction	<input type="radio"/> axial	<input type="radio"/> radial

Initial mod. of elast., initial ring stiffness as per DIN EN 1228

24h creep tendency with ref. to DIN EN 761

<input type="checkbox"/>	Date of test	E_U [MPa]	S_0 [N/m ²]	h [mm]	<input type="checkbox"/>	K_{n24} [%]
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Water tightness as per APS code

<input type="checkbox"/>	Date of test	Test period [min]	Test pressure [bar]	Test result
		30	0.5 ± 5%	<input type="radio"/> tight <input type="radio"/> not tight

Calcining method as per DIN EN ISO 1172

<input type="checkbox"/>	Date of test	Resin content [%]	Residue, total [%]	Glass content [%]	Additive [%]
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Spectral analysis with ref. to ASTM D5576 (FT-IR)

Density as per DIN EN ISO 1183, Part 1

<input type="checkbox"/>	Date of test	Resin	<input type="checkbox"/>	Date of test	Density ρ [g/cm ³]
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Thermal analysis as per DIN EN ISO 11357, Part 1/DIN 53765 (DSC measurement)

<input type="checkbox"/>	Date of test	Glass-transition temperature T_g [°C]		Enthalpy [J/g]	
		T_{gH1}	ΔT_g	<input type="radio"/> exothermic	<input type="radio"/> endothermic
		T_{gH2}			

Residual styrene content as per DIN 53394, Part 2 (GC)

<input type="checkbox"/>	Date of test	Qty. weighed in [mg]	Res. styrene content [mg/kg]	Res. styrene content [%]	Qty. weighed in referred to	
					Total weighed in	Pure resin
					<input type="radio"/>	<input type="radio"/>

Evaluation of results

Requirements	met	not met	Requirements	met	not met
Bending modulus of elasticity	<input type="radio"/>	<input type="radio"/>	Circumfer. mod. of elasticity	<input type="radio"/>	<input type="radio"/>
Bending stress	<input type="radio"/>	<input type="radio"/>	Initial ring stiffness	<input type="radio"/>	<input type="radio"/>
Wall thickness	<input type="radio"/>	<input type="radio"/>	24h creep tendency	<input type="radio"/>	<input type="radio"/>
Water tightness	<input type="radio"/>	<input type="radio"/>	Density	<input type="radio"/>	<input type="radio"/>

Remarks: _____

Signature of Inspector/Head of Lab.

IKT Web-
 No. _____
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