

CHILL simulation for Polymer processing

Do you want to fine tune your recipe, execute a feasibility study or develop your polymer process? The CHILL Polymer Processing laboratory gives you the opportunity to simulate your production process on a small scale. Our state-of-the-art facilities contains the following techniques:

1. Extrusion

Single screw extrusion to process your polymer into cast film, blown film or mono filament to make pellets. Twin screw extrusion to compound your polymer or polymer blends into filament for FDM 3D printing or to make pellets.

2. Injection moulding

To make tensile, Izod, step-chip color/gloss specimens or plates.

3. Calandering

To mix and knead thermoplastics or elastomers into sheets.

4. Compression moulding

Compression moulding under high pressure, temperature and vacuum.

	EQUIPMENT	OEM	TYPE
Extrusion	Single Screw	Collin	E20T
		Collin	E25M
	Twin Screw	Thermofisher Rheomex	19/250S
		Collin teachline	ZK 25 T x 18 D
		Coperion	ZSK 18 x 44D
Blown Film	Collin	BL50T	
Castfilm	Thermofisher Rheomex	557-2602 CR72T with 100mm slit-die 567-5040	
Injection Moulding		Boy	XS
		Boy	35E
		Arbrug	Allrounder 170s
Compression moulding		Collin	P200E
		Fontijne	TP 400
		Fontijne	LabEcon300
Calandering		Collin	W100T
Batch Mixer		Thermofisher	Rheomix 600 OS