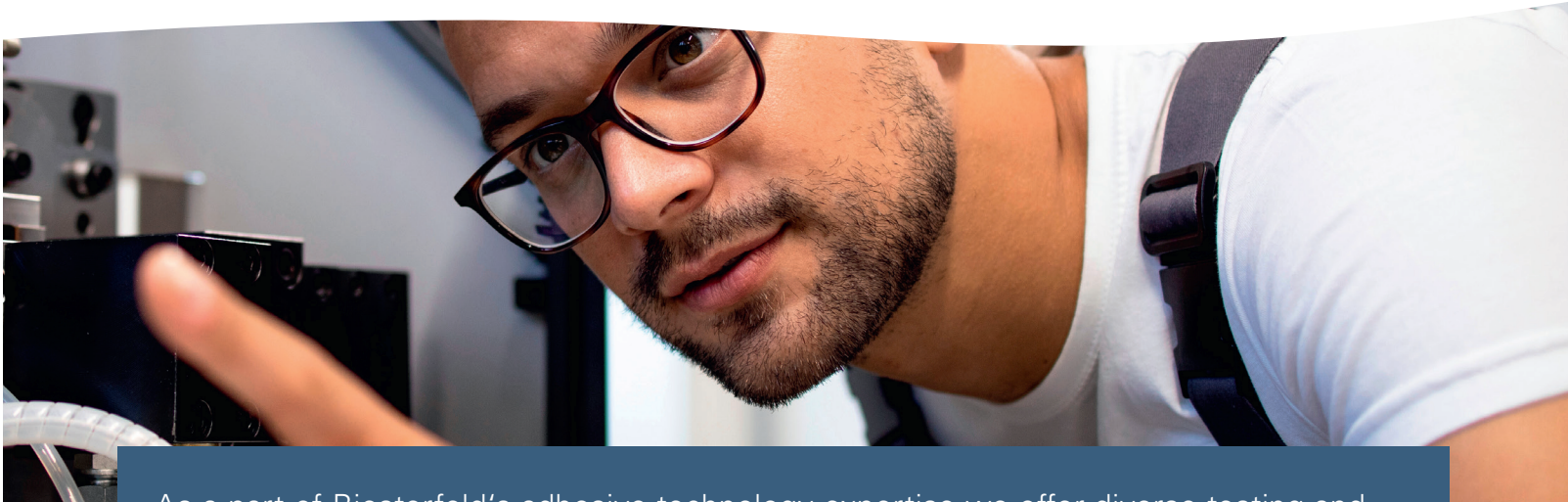


Technical and Application Services – Adhesives



As a part of Biesterfeld's adhesive technology expertise we offer diverse testing and characterization services for adhesive materials. This includes basic and advanced performance tests for product qualification, quality control and product selection.

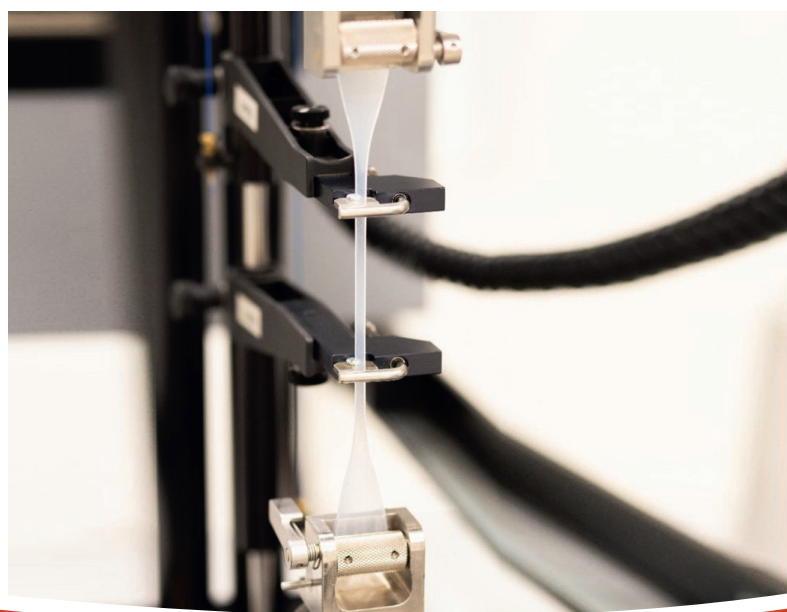
Services for optimal product selection and product performance

From selecting the right product to testing the perfect properties we offer modern and state-of-the-art lab and material test services for adhesives.

This supports cost/performance efficiencies and environment safety at the same time.

Service offer

- › preparation and testing of adhesives
- › determination of optimal physical and mechanical properties
- › production of test specimen, aging and surface treatment
- › tests according to ISO-standards



Contact us at adhesives-pp@biesterfeld.com for more information!

Test				Method / Equipment		Test Protocol / DIN	
Preparation	Mixing	advanced mixing equipment		-			
	Curing	heat curing, forced curing		-			
Mechanical Properties	Tensile Strength	tensile strength, shear strength		ISO 527			
		elongation, elongation at break, elastic recovery, tear resistance		Instron Universal Testing Frame with heat chamber -30C to +300C			
	Lap-Shear Strength	measurement adhesion power		ISO 1465, ISO 4587			
	Impact Strength	Charpy-impact strength		ISO 179-1, ISO 8256 unnotched / notched			
	Adhesion	peel test		ISO 813, VDI 2019			
		Elcometer adhesion tester		basic adhesive test			
Physical Properties	Hardness	digital durometer		Shore A and Shore D			
	DSC	glass transition temperature: DSC melting point		acc. to ISO 11357-2/3			
	Rheology	different test protocols		acc. to ISO 2555, etc.			
		viscosity of liquids, viscosity over time		Brookfield			
Aging	Climate Chamber	climate change test		programable climate chamber humidity control -70C to +180C			
	Oven	forced aging		programmable 20C-300C			
Surface Treatment	Surface Energy	modification of substrate surface energy by flame-, Corona-, plasma treatment		flame treatment, Coronajet, athmospheric pressure plasma, VUV-radiation, ADP-coating, low pressure plasma			

Additional tests available on request