

## LABORATORY SERVICES FOR YOUR PRODUCT

SITRAPLAS is known for tailor-made product development and manufacturing of engineered resin compounds based on the highest quality standards. Our experienced team is your partner, from the first idea up to series production. In terms of technical equipment, our comprehensive testing and analysis laboratory plays a leading role in all production steps in addition to detailed electronic process control. Our laboratory services are made available to customers independent of production processes.

**If you need support in plastic testing and analyzing  
... please contact us!**

- > Constant investments in modern testing and analysis methods
- > Scale-up-capable pilot plant with twin-screw extruders
- > Long-term expertise in formulation and process engineering
- > Regular participation in interlaboratory tests to ensure reliable test results
- > Active involvement in research projects
- > Close cooperation with universities and institutes



## OVERVIEW OF OUR TESTING AND ANALYSIS OPTIONS

Rheological Properties	DIN EN ISO 1133-1	Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics
Mechanical Properties	DIN EN ISO 179-1	Determination of Charpy impact properties
	DIN EN ISO 527-1/2	Determination of tensile properties
	DIN EN ISO 868	Determination of indentation hardness by means of a durometer (Shore hardness)
Thermal Properties	DIN EN ISO 306	Determination of Vicat softening temperature (VST)
Optical Properties	ISO 7724/1 / DIN 5033-7	Measuring conditions for object colours
	DIN EN ISO/CIE 11664-4	CIE 1976 L*a*b* colour space
	DIN EN ISO 2813	Determination of gloss value at 20°, 60° and 85°
	DIN EN ISO 3668	Visual comparison of colour
Other Characteristics	EN ISO 3451	Determination of ash
	DIN EN 1172	Determination of the textile-glass and mineral-filler content
	DIN EN ISO 1183	Methods for determining the density of non-cellular plastics
	DIN EN ISO 60	Determination of apparent density of material that can be poured from a specified funnel
	DIN EN ISO 294-4	Determination of moulding shrinkage
	UL 94	Tests for Flammability of Plastic Materials for Parts in Devices and Applications
Analysis	DIN EN ISO 15512	Determination of water content
	DIN EN ISO 294-1	Injection moulding of test specimens of thermoplastic materials
	DIN EN ISO 11358-1	Thermogravimetry (TG) of polymers
	DIN EN ISO 11357	Differential scanning calorimetry (DSC)
	FTIR	Fourier-transform infrared spectroscopy
	MIK	Stereomicroscopy