



## TEST/ANALYSIS PRICE LIST

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BTÜ-MERLAB-L-07eng	02.01.2024		1 / 11

ANALYSIS CLASS	EQUIPMENT	ANALYSIS	METHOD/DESCRIPTION	FEE (Excluding VAT)
AGING TESTS	Ozone Resistance Test Device	Ozone Resistance Test	<b>ISO 1431-1</b>	40 TL/Hour (50% discount applies for 2-24 samples)
			ASTM D1149 Metot B Prosedür B1, Inhouse method	36 TL/Hour (50% discount applies for 2-24 samples)
			ISO 3996 (Hortum numuneleri için)	44 TL/Hour (50% discount applies for 2-24 samples)
	Xenon-UV Aging Tester	Light Fastness Test with Xe ark Lamp	<b>ISO 4892-2, TS EN ISO 4892-2, BS EN ISO 4892-2, DIN EN ISO 4892-2,</b>	200 TL/Hour (50% discount applies for 2-10 samples)
			ASTM D2565, D6695, SAE J2412, J2527, Fiat 50451, Renault D27 911, ASTM G155, Inhouse method	170 TL/Hour (50% discount applies for 2-10 samples)
	Fluorescence-UV Aging Tester	Floresans UV Lamba ile Işık Hashığı Testi	<b>ISO 4892-3, TS EN ISO 4892-3, BS EN ISO 4892-3, DIN EN ISO 4892-3</b>	40 TL/Hour (50% discount applies for 2-24 samples)
			ASTM G154, Inhouse method	35 TL/Hour (50% discount applies for 2-24 samples)
	Thermal Aging Tester in Humidity and Heat Conditions	Aging Test in Humidity and Temperature Conditions	TS ISO 188 (Metot B), ASTM D 573-04, DIN 53508	If the sample size is less than 50 cm 90 TL/Hour  If the sample size is larger than 50 cm 150 TL/Hour  (50% discount applies for 2 samples or more)
Gray Scale/Visual Assessment		Inhouse method	300 TL/Sample	



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ANALYSIS CLASS	EQUIPMENT	ANALYSIS	METHOD/DESCRIPTION	FEE (Excluding VAT)
SURFACE AND STRUCTURAL ANALYSIS-1	SEM-Scanning Electron Microscopy	Sample Preparation and Coating	Inhouse Method	120 TL/Piece
		Image Acquisition		2000 TL/Hour (Maximum 5 samples per hour, if time exceeds time, additional hour fee will be charged)
				500 TL/Sample (Valid for single samples and not exceeding 20 minutes)
		EDS Elemental Analysis		Additional 200 TL/Sample
	EDS Mapping	Additional 400 TL/Sample		
	XRD-X-Ray Diffractometer	X-Ray Diffraction Pattern Evaluation (Bulk Powder and Film Sample)	Inhouse Method	600 TL/Piece
		X-Ray Diffraction Pattern Evaluation (Bulk Powder and Film Sample)- (Up to 1 Hour)		750 TL/Piece
		Point Analysis Using XRD		600 TL/Piece
		XRD-Phase Analysis (After XRD pattern evaluation)		600 TL/Piece
		Quantitative Analysis	Rietvelt or Internal Standard Method	2400 TL/Piece
		Residual Stress Analysis (Single stage, One direction)	Inhouse Method	2500 TL/Piece
		Residual Stress Analysis (Single stage, Two direction)		3000 TL/Piece



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SURFACE AND STRUCTURAL ANALYSIS-2	XRD-X-Ray Diffractometer	Degree of Crystallinity of Polymers/Fibers (After XRD pattern evaluation)	Inhouse Method	500 TL/Piece
		Crystallite Size Determination (After XRD pattern evaluation)	Sherrer Method	500 TL/Piece
		Quantitative Analysis (After XRD pattern evaluation and phase analysis)	RIR Method	600 TL/Piece
	AFM-Atomic Force Microscope	Dynamic Image acquisition - Static Image acquisition	Inhouse Method	1000 TL/Sample (The sample to be placed in the device should be 1x1x0.5 cm in size, and the surface roughness of the sample should not exceed 5 µm.)
		AFM Liquid Cell Analysis	Inhouse Method	1200 TL/Sample (For solid sample measurement fixed in liquid medium)
		Kelvin Probe Microscope (KFM)	Inhouse Method	1200 TL/Sample
		Magnetic Force Microscope (MFM)	Inhouse Method	1200 TL/Sample
	Contact Angle and Surface Tension Measurement Device	Contact Angle Measurement	Inhouse Method	450 TL/Sample
		Surface Porosity (Topography) Analysis	Inhouse Method	600 TL/Sample
		Corrected Contact Angle Measurement	Inhouse Method	750 TL/Sample
		Surface Tension Analysis	Inhouse Method	450 TL/Sample
	Research, Metal and Stereo Microscopes	Surface Energy Analysis	Inhouse Method	900 TL/Sample
		Microscope Analysis	Inhouse Method	400 TL/Sample
	Invert Microscope	Cell Imaging Fluorescent Use	Inhouse Method	300 TL/Hour
		Cell Imaging Non-Fluorescent Use	Inhouse Method	200 TL/Hour



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ANALYSIS CLASS	EQUIPMENT	ANALYSIS	METHOD/DESCRIPTION	FEE (Excluding VAT)
PLASTIC / RUBBER ANALYSIS	HDT and Vicat Tester	Heat Distortion Temperature Test (HDT)	ISO 75-1 ve 2, ASTM D648	500 TL/Sample
		Vicat softening temperature test	TS EN ISO 306, ASTM D1525	700 TL/Sample
	Hardness Tester	Shore A	ASTM D 2240	300 TL/Sample
		Shore D	ASTM D 2240, ISO 868	300 TL/Sample
	Melt Flow Index (MFI) tester	Melt Flow Index (MFR)	TS EN ISO 1133, ASTM D1238	600 TL/Sample
	Taber Abrasion Tester	Abrasion Resistance Testing	Check feasibility of method or standard with customer representative	750 TL/Sample
	Horizontal Flammability Tester	Horizontal Flammability Rate Testing	ASTM D5132, ISO 3795, SAE J369, FMVSS 302	2600 TL/Sample
	UL94 Flammability Tester	Plastic Flammability Test	UL94-2021	2600 TL/Sample
	Gas Permeability Tester	Determination of Oxygen Permeability Rate	ISO 15105-1, ASTM D1434, ISO 2556, GB/T 1038-2000, JIS K7126-1	2000 TL/Sample (1 parallel sample analysis)
		Determination of Nitrogen Permeability Rate	(This analysis can measure gas permeability levels in the range of 0.05-500000 cm <sup>3</sup> /m <sup>2</sup> .24h.bar in non-porous flat surface flexible materials with a minimum diameter of 12 cm and a maximum thickness of 3 mm)	3000 TL/Sample (2 parallel sample analysis)
		Determination of Carbon Dioxide Permeability Rate		4000 TL/Sample (3 parallel sample analysis)
	Water Vapor Permeability			ASTM E 96/E 96M
Ash content for plastic materials			ISO 3451-1, ASTM D5630	700 TL/Piece



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ANALYSIS CLASS	EQUIPMENT	ANALYSIS	METHOD/DESCRIPTION	FEE (Excluding VAT)
MECHANICAL TESTS	Mechanical Testing Machine	Tensile test (Room Temperature)	ASTM D 412, ASTM D 638, ISO 527, ISO 37	250 TL/Piece
		Tear Test	<b>ISO 34-1, ASTM D 624</b>	300 TL/Piece
			TS 4698, Inhouse method	250 TL/Piece
		Compression Test (Room Temperature)	ISO 604, ISO 5893, ASTM D 575 B	250 TL/Piece
	Flexural Test (Room Temperature)	ASTM D 790, ISO 178	250 TL/Piece	
	Izod/Charpy Impact Testing Machine	Impact test	ISO 179-1, ISO 180	450 TL/Piece
	Compression Set Test Fixture	Compression Set Test (up to 24 hour)	ISO 815, ASTM-D 395	1000 TL/Sample (It is performed up to 3 repetitions.)
		Compression Set Test (up to 48 hour)	ISO 815, ASTM-D 395	1500 TL/Sample (It is performed up to 3 repetitions.)
		Compression Set Test (up to 72 hour)	ISO 815, ASTM-D 395	1800 TL/Sample (It is performed up to 3 repetitions.)
		Compression Set (Up to 24 hours at below 25° C)	ISO 815, ASTM-D 395	2500 TL/Sample (It is performed up to 3 repetitions.)
		Compression Set (Up to 48 hours at below 25° C)	ISO 815, ASTM-D 395	4000 TL/Sample (It is performed up to 3 repetitions.)
	Impact Test (Traffic Cone, Traffic Cylinder)			1200 TL/Sample
	Bending Test (Traffic Cone, Traffic Cylinder)			1000 TL/Sample
	Fatigue Test (Traffic cone, Traffic Cylinder)			750 TL/Sample
Fragility Test		TS 4709	150 TL/Piece (Cold conditioning fee will be added.)	



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ANALYSIS CLASS	EQUIPMENT	ANALYSIS	METHOD/DESCRIPTION	FEE (Excluding VAT)
THERMAL ANALYSIS	DSC-Differential Scanning Calorimeter	Thermogram acquisition	EN ISO 11357-1,2,3 TS EN ISO 11357-1,2,3	1000 TL/Sample
			ISO 24087 Inhouse method	900 TL/Sample
	TGA-Termal Gravimetric Analyzer	Thermogram acquisition (It is carried out in an atmosphere of Nitrogen, Oxygen and Air, reaching a maximum temperature of 900 °C. Samples containing phosphate-based flame retardant are not analyzed.)	EN ISO 11358-1 TS EN ISO 11358-1	1000 TL/Sample
			ASTM E1131 Inhouse method	900 TL/Sample
	DSC and TGA thermogram acquisition under special conditions		Inhouse method	800 TL/Hour (For analyzes longer than 3 hours)



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ANALYSIS CLASS	EQUIPMENT	ANALYSIS	METHOD/DESCRIPTION	FEE (Excluding VAT)
SPECTROSCOPIC ANALYSIS	FT-IR Spectrophotometer	Spectrum acquisition (ATR)	Inhouse method	400 TL/Sample
	LIPS - Laser Induced Plasma Spectroscopy	Carbon Analysis in Stainless Steels	Inhouse method	600 TL/Piece
		Alloy Classification		1200 TL/Piece
		Elemental Analysis of Rocks (with Laser Technique)		600 TL/Piece
		Elemental Analysis of Metals		600 TL/Piece
	UV-Vis Spectrophotometer	Spectrum Scanning (liquid sample)	Inhouse method	300 TL/Sample
		Quantitative analysis (liquid sample)		400 TL/Sample
	Color Spectrophotometer	Color and Haze Measurement	CIE No.15, ASTM D1003, ASTM E1164, DIN 5033, JIS Z 8722, ISO 7724/1	500 TL/Sample
	Gloss meter	Brightness and Gloss Measurement	ISO 2813, ASTM D523, ASTM D2457, DIN 67530, ISO 7668, ASTM E 430, ASTM D5767	300 TL/Sample
	Particle Size Analyzer	Particle Size Measurement Wet Analysis (between 0.1 µm and 1000 µm) (in water phase)	Inhouse method	700 TL/Piece
Particle Size Measurement Dry Analysis (between 0.1 µm and 1000 µm) (In oil phase)		Inhouse method	2400 TL/Piece	



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ANALYSIS CLASS	EQUIPMENT	ANALYSIS	METHOD/DESCRIPTION	FEE (Excluding VAT)	
CHROMATOGRAPHIC ANALYSIS	Gas Chromatography (GC-MS/FID)	Method Development	In-house method  (If needed, the supply of materials such as methods, columns, standards and chemicals belongs to the customer)	4200 TL/Piece	
		Qualitative Analysis (Peaks with a ratio above 1% are given.)		1100 TL/Sample	
		Quantitative analysis		1600 TL/Sample (It is a single component price and an additional fee of +150 TL is charged for additional components)	
		Qualitative Essential Oil Analysis (From Extract)		1100 TL/Sample	
		Qualitative Fixed Oil Analysis (From Extract)		1100 TL/Sample	
		Quantitative Essential Oil Analysis (From Extract)		1600 TL/Sample (It is a single component price and an additional fee of +150 TL is charged for additional components)	
		Quantitative Fixed Oil Analysis (From Extract)		1600 TL/Sample (It is a single component price and an additional fee of +150 TL is charged for additional components)	
		Determination of FOG in Textile Products (Fiber, Thread, Fabric)		3000 TL/Sample	
		Determination of VOC in Textile Products (Fiber, Thread, Fabric)		1600 TL/Sample	
	Liquid Chromatography (HPLC-DAD/RID) (LC-MS/MS)	Method Development	In-house method  (If needed, the supply of materials such as methods, columns, standards and chemicals belongs to the customer)	4200 TL/Piece	
		Qualitative Analysis		1100 TL/Sample	
		Quantitative analysis		1600 TL/Sample (It is a single component price and an additional fee of +150 TL is charged for additional components)	
	Elemental Analysis		Determination of CHNS	In-house method	900 TL/Sample
			Determination of Oxygen	In-house method	1100 TL/Sample





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ANALYSIS CLASS	ANALYSIS	METHOD/DESCRIPTION	FEE (Excluding VAT)
GENERAL ANALYSIS	pH Determination	Inhouse method	250 TL/Sample
	Density Determination in Plastics	TS EN ISO 1183-1	300 TL/Sample
	Unit Area Weight	Inhouse method	300 TL/Sample
	Weight/Size Determination	Inhouse method	250 TL/Sample
	Extraction	Inhouse method	300 TL/Sample (60 TL per additional hour will be added.)
	Determination of Substances Extractable with Organic Solvents	ISO 6427:2013	3000 TL/Sample
	Conductivity Determination	Inhouse method	250 TL/Sample
	Determination of Moisture or Dry Matter	ASTM D6980-17	500 TL/Sample
	Titration	Inhouse method	400 TL/Sample
	Pycnometer Density Test		450 TL/Sample
	Determination of pH in Water		200 TL/Sample
	Determination of Ammonia/Ammonia Nitrogen in Water (Including Distillation)		750 TL/Sample
	Determination of Total Nitrogen in Water		1000 TL/Sample
	Determination of Phosphorus in Water		450 TL/Sample
	Determination of pH in Soil		250 TL/Sample
	Determination of Total Nitrogen in Soil		1000 TL/Sample
	Determination of Phosphorus in Soil		900 TL/Sample
Determination of percentage (%) Solids	500 TL/Sample		
Determination of Suspended Solids	500 TL/Sample		



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ANALYSIS CLASS	ANALYSIS	METHOD/DESCRIPTION	FEE (Excluding VAT)	
SPECIFIC ANALYSIS	Overall Migration	Fatty Food Simulant – Filling Method (95% Ethanol; Isooctane; 50% Ethanol)	EN 1186:1-14	1500 TL/Sample (For each simulant)
		Fatty Food Simulant – Immersion Method (95% Ethanol; Isooctane; 50% Ethanol)	EN 1186:1-14	1500 TL/Sample (For each simulant)
		Aqueous Food Simulant – Filling Method (Distilled Water; 3% Acetic Acid; 10% Ethanol; 20% Ethanol)	EN 1186:1-9	1500 TL/Sample (For each simulant)
		Aqueous Food Simulant – Immersion Method (Distilled Water; 3% Acetic Acid; 10% Ethanol; 20% Ethanol)	EN 1186:1-3	1500 TL/Sample (For each simulant)
		Pile Weight	ISO 8543	500 TL/Sample
		Pile Size	ISO 2549	250 TL/Sample
		Yarn Linear Density (DTex)	FIFA Test Method 23	250 TL/Sample
		Yarn Cross Section	FIFA Test Method 25	750 TL/Sample
		Tassel Breaking Resistance	FIFA Test Method 26	1500 TL/Sample
		Total Number of Nodes	ISO 1763	400 TL/Sample
		Total Pile Weight	ISO 8543	300 TL/Sample
		Water Filtration Test	FIFA Test Method 24	1300 TL/Sample
		Surface Adhesion Analysis of Reflective Material in Traffic Cones	BS EN 13422	1300 TL/Sample



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ANALYSIS CLASS	EQUIPMENT	METHOD/DESCRIPTION	FEE (Excluding VAT)
USE OF EQUIPMENT	Injection Molding	The work will be carried out by the company personnel or person under the supervision of an expert, and the cleaning polymer will be provided by the company or person.	700 TL/Sample (1 sample is accepted for every 10 samples)
	Sieve Shaker	Dry Analysis	500 TL/Sample
	Oven / Heater	Wet Analysis	750 TL/Sample
	Isıl Yaşlandırma	25 – 300 °C	28 TL/Hour
	Grinder	25 – 300 °C	28 TL/Hour
	Rotary Evaporator	Device Use	500 TL/Sample
	Thermal Aging Test (Temperature and humidity)	Device Use (10 – 60 °C / % 30-90 RH)	300 TL/Sample 28 TL/Hour

ANALYSIS CLASS	ANALYSIS	METHOD/DESCRIPTION	FEE (Excluding VAT)
SAMPLE PREPARATION	NO - 1	Inhouse method	250 TL/Sample
	NO – 2		400 TL/Sample
	NO – 3		600 TL/Sample
	NO – 4		800 TL/Sample
	NO - 5		1000 TL/Sample
	Chemical Aging Sample Preparation		*Return will be made via e-mail.

<sup>1</sup> Dark and Red colored test methods are accredited.

<sup>2</sup> Report duplication/split report requests are charged at 200 TL+VAT for each report.

<sup>3</sup> The fee for method development/applicability studies is determined by MERLAB management taking into account the scope of work.

<sup>4</sup> Consumables and chemicals in new analyzes belong to the customer.

<sup>5</sup> Sampling preparation fees vary according to the type of sample, methods, consumables and services used.

**\* In case of typographical errors, the price list in the original language (Turkish) is valid.**