

## SPECIAL & POLYMER TESTING @

S. No.	Tests	Quantity Required	Test Charges per Sample	
			USD (\$)	EURO (€)
114)	X-ray Diffraction	-	30	20
	✓ Chart Diffraction (10 to 35°)			
	✓ Additional 10° Scan			
	✓ Orientation Angle (Per Peak)			
	✓ Material Identification (By Comparison with Standards)		45	30
115)	F.T.I.R. Spectroscopy	-	30	25
	✓ Material Identification (Using Standard Library)	-	40	30
116)	Birefringence Measurement Using Polarising Microscope	-	20	15
117)	Static Charge and Half Decay Time by Honesto meter			
	✓ Fibre	-	20	15
	✓ Yarn	-	20	15
	✓ Fabric	-	15	10
118)	Scanning Electron Microscope Photographs			
	✓ Longitudinal View of Fibres/Yarns	-	45	35
	✓ Cross-section View of Fibres/Yarns	-	45	35
119)	Fabric Defect Analysis Using Scanning Electron Microscope [Minimum Charges]	-	65	45

*[@ - In case of Special Testing, rates may vary depending upon special testing conditions or actual machine run time]*

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S. No.	Tests	Quantity Required	Test Charges per Sample	
			USD (\$)	EURO (€)
120)	Thermal Analysis			
	✓ Thermo Gravimetric Analysis [TGA]			
	✓ RT -> 350°C / 10°C per min (30 min scan)	-	30	25
	✓ RT -> 350°C / 5°C per min		50	40
	✓ Above 350°C / per 100°C / 10°C per min or part of it		5	3
121)	Differential Scanning Calorimetry (DSC)			
	✓ 35° - 350° or part of it / 10° per min	-	40	30
	✓ 35° - 350° for 5° per min	-	75	55
	✓ Below ambient on lower side per 10°C [extra]	-	5	3
	✓ Above 350°C, per 50°C or part of it [extra]	-	5	3
122)	Gel Permeation Chromatography (GPC) for Molecular Weight Distribution			
	✓ Water as Mobile Phase	(Charges for Minimum of 3 samples)	75	55
	✓ Organic Solvent as Mobile Phase		90	70
	✓ For PET using HFIP as Solvent		125	90
123)	Total Organic Carbon	-	15	10
124)	Refractive Index of Liquids (Abbe's Refractometer)	100 ml/g	15	10
125)	Melt Spinning Experiments (For 1 kg Material)	-	450	340

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