

	Sample Preparation		
	Description	Unit	Company
1	Precision Cut-off machine 1 - 3 times	Time	1,000
	Extra points	Time	200
2	Hot mounting	Sample	700
3	Vacuum Impregnation/Cold Mounting	Sample	1,100
4	Polishing machine		
	Operating time	Hr	1,000
	Sandpaper	Step	200
	Diamond	Step	400
5	Ion Milling	Hr	1,200
6	CPD (Critical Point Dryer)	Time	1,700
7	Freezer mill	Time	1,200
8	Laser cutting	Hr	2,100
9	CNC Milling (Computer Numerical Control)	Hr	2,100
10	3D Printing	Hr	500
	Polylactic acid (PLA)	KG.	2,000
	Optical Microscope		
	Description	Unit	Company
1	Optical Microscope with High-definition color camera head (DS-Fi2)	Hr	800
2	Optical Microscope with PC control-based control unit (DS-U3)	Hr	800
3	Optical Microscope (Eclipse LV-N, LV100DA-U) With Function grain size and Cast iron (NIS Element D)	Hr	1,500
	Melt Flow Index Test		
	Description	Unit	Company
Common p	lastic		
1	MethodA: Manual cut-off (MFI, Melt Density)	Sample	1,200
2	MethodB: Automatic method (MVR, MFI) :Customer already know Melt Density	Sample	1,200
3	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min)	Sample	1,200
4	DryingOven (if drying less than 3 hr.: 150 baht per sample)	Sample	250
Engineering	g plastic		
1	MethodA: Manual cut-off (MFI, Melt Density)	Sample	1,800
2			1,000
	MethodB: Automatic method (MVR, MFI) :Customer already know Melt Density	Sample	1,800
3	MethodB: Automatic method (MVR, MFI) :Customer already know Melt Density MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min)	Sample Sample	•
3			1,800
4	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min)	Sample	1,800 1,800
4	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample)	Sample	1,800 1,800
4	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample	Sample	1,800 1,800
4	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample Heat Distortion Temperature Test	Sample Sample	1,800 1,800 250
4 If the custo	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample Heat Distortion Temperature Test Description	Sample Sample Unit	1,800 1,800 250
4 If the custo	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample Heat Distortion Temperature Test Description Operating Test (HDT or VICAT)	Sample Sample Unit	1,800 1,800 250
4 If the custo	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample Heat Distortion Temperature Test Description Operating Test (HDT or VICAT) Nano Search Microscope	Sample Sample Unit Test	1,800 1,800 250 Company 2,000
4 If the custo	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample Heat Distortion Temperature Test Description Operating Test (HDT or VICAT) Nano Search Microscope Description	Sample Sample Unit Test Unit	1,800 1,800 250 Company 2,000
4 If the custo	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample Heat Distortion Temperature Test Description Operating Test (HDT or VICAT) Nano Search Microscope Description Operating time	Sample Sample Unit Test Unit	1,800 1,800 250 Company 2,000
4 If the custo	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample Heat Distortion Temperature Test Description Operating Test (HDT or VICAT) Nano Search Microscope Description Operating time 3D Digital Video Microscope	Sample Sample Unit Test Unit Hr	1,800 1,800 250 Company 2,000 Company 3,200
4 If the custo	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample Heat Distortion Temperature Test Description Operating Test (HDT or VICAT) Nano Search Microscope Description Operating time 3D Digital Video Microscope	Sample Sample Unit Test Unit Hr	1,800 1,800 250 Company 2,000 Company 3,200 Company
4 If the custo	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample Heat Distortion Temperature Test Description Operating Test (HDT or VICAT) Nano Search Microscope Description Operating time 3D Digital Video Microscope Description Operating time	Sample Sample Unit Test Unit Hr	1,800 1,800 250 Company 2,000 Company 3,200 Company
4 If the custo	MethodC: Automatic method: Half Die (High MFI ≥ 70 g/10min) DryingOven (if drying less than 3 hr.: 150 baht per sample) mer choose Method B and need Melt Density Calculation: 500 baht per sample Heat Distortion Temperature Test Description Operating Test (HDT or VICAT) Nano Search Microscope Description Operating time 3D Digital Video Microscope Description Operating time Atomic Forced Microscope (AFM 5500M)	Sample Sample Unit Test Unit Hr	1,800 1,800 250 Company 2,000 Company 3,200 Company 2,000



Field Emission Scanning Electron Microscopes (FE-SEM)					
			Company		
	Description	Unit	SU8230	SU8030	SU5000
1	Operating time	Hr	4,000	3,800	3,500
2	SEM	Pic.	100	100	100
3	Coating	Time	200	200	200
4	EDS (Energy Dispersive X-Ray Spectroscopy)	Pic.	500	500	500
5	EBSD (Electron Backscatter Diffraction)				
	Mapping	Pic.	1,000	ı	-
	Transmission	Electron Microscope (TEM)			
	Description		Unit	Com	pany
1	Operating time		Hr	4,5	500
2	TEM		Pic.	1	00
	Dark field/Bright field		Pic.	1	00
	Diffraction pattern		Pic.	10	00
3	EDS (Energy Dispersive X-Ray Spectroscopy) : Line scan/Poin	t scan/Area scan	Pic.	5	00
	EDS (Energy Dispersive X-Ray Spectroscopy) : Mapping	·	Pic.		000
		electron Spectroscopy (XPS)		,	
	Description		Unit	Com	ıpany
1	XPS Operating time		Hr		200
2	XPS Component analysis		Element		000
3	Ultraviolet Photoelectron Spectroscopy (UPS)-Operation time		Hr	6,8	300
4	UPS-Component analysis		Element	1,000	
5	5 High temperature gas reaction cell-Operation time		Hr	6,8	300
6	High temperature gas reaction cell-Component analysis		Element	1,0	000
	Micro-Energy Dispersive X-ray	/ Fluorescence Spectrometer (N	1icro-EDXRF)		
	Description		Unit	Com	pany
1	Sample testing (1 point)		Sample	1,7	700
2	Extra testing point in same sample		Point	50	00
3	Sample preparation with film		Sample	3	00
4	Testing with Helium path (For liquid sample)		Time	2,0	000
	Single-Crystal X	-ray Crystallography (SC-XRD)			
	Description		Unit	Com	pany
Small mole	cule (Mole Molecule < 5,000)				
1	Screen crystal with Optical Microscope and crystal mount		Sample		00
2	Screen crystal and unit cell checking		Hr		500
3	Full data collection (Room Temperature)		Hr		700
5	Full data collection (Low Temperature) Analysis structure		Hr	,	000
	ecule (Mole Molecule < 5,000)		Sample	13,	
6	Screen crystal with Optical Microscope and crystal mount		Sample	8	50
7	Screen crystal and unit cell checking		Hr		300
8	Full data collection (Room Temperature)		Hr		500
9	Full data collection (Low Temperature)		Hr	5,2	200
10	Analysis structure		Sample	22,	000
	Small Angle	e X-Ray Scattering (SAXS)			
	Description		Unit	Com	ipany
1	Operating time		Hr		500
2	Nanostructure analysis		Sample	10,	000



	Wavelength Dispersive X-Ray Fluorescence (WDXRF	-)	
	Description	Unit	Company
1	Sample testing	Sample	1,700
2	Sample Preparation	Sample	500
	X-ray Powder Diffraction (XRD)		
	Description	Unit	Company
1	Sample testing	Sample	1,700
2	Sample Preparation	Sample	500
	UV-Vis-NIR Spectrophotometer (UV-VIS-NIR)		
	Description	Unit	Company
1	Sample testing (30 minute)	Sample	900
If testing m	nore than 30 minutes cost 900 baht per 30 minute more per sample		
	Gas Chromatography - Mass Spectrometry (GC-MS	5)	
	Description		6
	Qualitative	Unit	Company
Head space			
1	Sample preparation	Sample	600
2	Customer condition	Sample	2,500
3	Trial Condition	Sample	8,000
Auto Inject			
1	Sample preparation	Sample	500
2	Customer condition	Sample	1,500
3	Trial Condition	Sample	4,500
	Quantitative	Unit	Company
Head space			
1	Sample preparation	Sample	600
2	Calibration Curve (Customer standard material)	Set	800
3	Customer condition	Sample	2,500
4	Trial Condition	Sample	9,000
Auto Inject		6 1	700
1	Sample preparation	Sample	800
3	Calibration Curve (Customer standard material) Customer condition	Set Sample	1,500
	Trial Condition	· · · · · · · · · · · · · · · · · · ·	6,000
4	Liquid Chromatography - Mass Spectrometry/ Mass Spectrometry	Sample rv (I C-MS/MS)	0,000
	Description	Unit	Company
1	Trial condition within 3 h (for 1 sample)	Sample	16,000
2	Customer condition (for 1 sample)	Sample	7,000
3	If more than 1 sample	Sample	2,100
,	Liquid Chromatography -QTOF (LC-MS/QTOF)	Janipie	2,100
	Description	Unit	Rate 2
1	Qualification (Trial Condition)	Sample	19,500
2	Qualification (Condition)	Sample	8,000
3	Quantitation (Trial Condition)	Sample	31,000
4	Quantitation (Condition)	Sample	20,000
5	More than 1 sample	Sample	3,000
6	MS Library search (10 Analyte)	Sample	1,500
7	MS/MS Library search (10 Analyte)	Sample	3,000
		· · · · · · · · · · · · · · · · · · ·	I.



	Inductively Coupled Plasma - Atomic Emission Spectroscopy	(ICP-AES)	
	Description	Unit	Company
1	10 Elements (Digestion sample)	Sample	3,500
2	Oil Sample Follow ASTM D5185 (22 Elements)	Sample	5,000
	Inductively Coupled Plasma - Mass Spectrometry (ICP-	MS)	
	Description	Unit	Company
1	10 Elements (Digestion sample)	Sample	4,000
	Gas Chromatography - Mass Spectrometry / Mass Spectrometry	(GC-MS/MS)	
	Description	Unit	Company
	Qualitative		
	uto -Injection		
1	Trial Condition	Sample	5,300
2	Customer condition	Sample	2,600
El mode : H	eadspace Trial Condition		0.000
1		Sample	9,000
2 El mode : SF	Customer condition	Sample	4,400
1	Trial Condition	Sample	9,400
2	Customer condition	Sample	4,500
	nde : Auto - Injection	Sumple	,,===
1	Trial Condition	Sample	7,000
2	Customer condition	Sample	3,500
NCI & CI mo	rde : Headspace		
1	Trial Condition	Sample	12,400
2	Customer condition	Sample	6,000
NCI & CI mo	ode : SPME		
1	Trial Condition	Sample	12,700
2	Customer condition	Sample	6,200
	Quantitative	Unit	Company
El mode : A	uto -Injection		
1	Trial Condition	Sample	8,800
2	Customer condition	Sample	5,400
El mode : H			
1	Trial Condition	Sample	12,500
2	Customer condition	Sample	7,400
El mode : SF		Camala	12 000
2	Trial Condition Customer condition	Sample Sample	13,000 7,800
	ode : Auto - Injection	Sample	7,000
1	Trial Condition	Sample	12,200
2	Customer condition	Sample	7,100
	nde : Headspace		,
1	Trial Condition	Sample	17,500
2	Customer condition	Sample	9,900
NCI & CI mc	ode : SPME		
1	Trial Condition	Sample	18,000
2	Customer condition	Sample	10,300



	Imaging I	Mass Spectrometry (IMS)		
	Description	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Unit	Company
1	Analysis		Sample	14,000
2	ในกรณีที่ใช้เวลาในการ Scan มากกว่า 1 ชั่วโมง คิดเพิ่มครั้งล	ะ 30 นาที	Hr	8,800
3	Sample Preparation with Cyostat		Sample	1,300
	High-performan	ce liquid chromatography (HPLC)		
	Description		Unit	Company
1	Trial condition within 3 h (for 1 sample)		Sample	4,300
2	Customer condition (for 1 sample)		Sample	3,400
3	If more than 1 sample		Sample	1,400
	Thermal	Desorption System (TDS)		
	Description		Unit	Company
1	GC-MS with TDS for VOCs		Sample	15,200
2	GC-MS with TDS for VOCs and DNPH		Sample	31,600
	Differantial	Scanning Calorimeter (DSC)		
	Description		Unit	Company
1	Sample testing (-120 to 500 °C)		Sample	2,000
	Thermog	ravimetric Analysis (TGA)		
	Description		Unit	Company
1	Sample testing (Ambient to 1,100 °C)		Sample	2,000
		TMA	Sample	
	Description	TIVICA	Unit	Company
1	Sample testing			2,000
1		aman Migracaana	Sample	2,000
		aman Microscope	11-24	Commony
	Description		Unit	Company
1	Operating time	· •• /TEN 400 110	hr	3,200
		ectron Microscope (TEM 120 kV)		
	Description		Unit	Company
1	Operating time		Hr	4,000
2	TEM Image		Pic.	100
3	EDS (Energy Dispersive X-Ray Spectroscopy)		Pic.	500
	Description	Enzyme Testing		
Individual e	Description	Assay condition	Unit	Company
		(50°C, pH 5.5)	Sample	1,700
1	Amylase (U)			
2	Amylase (U) Alpha-amylase (DU)	(70°C, pH 6.6)	Sample	2,500
-			Sample Sample	2,500 2,500
2	Alpha-amylase (DU)	(70°C, pH 6.6)		· · · · · · · · · · · · · · · · · · ·
2	Alpha-amylase (DU) Alpha-galactosidase (U)	(70°C, pH 6.6) (50°C, pH 5.5)	Sample	2,500
2 3 4	Alpha-amylase (DU) Alpha-galactosidase (U) Beta-glucanase (U)	(70°C, pH 6.6) (50°C, pH 5.5) (50°C, pH 5.5)	Sample Sample	2,500 2,500
2 3 4 5	Alpha-amylase (DU) Alpha-galactosidase (U) Beta-glucanase (U) Beta-glucosidase (U)	(70°C, pH 6.6) (50°C, pH 5.5) (50°C, pH 5.5) (50°C, pH 5.5)	Sample Sample Sample	2,500 2,500 1,800
2 3 4 5 6	Alpha-amylase (DU) Alpha-galactosidase (U) Beta-glucanase (U) Beta-glucosidase (U) Beta-xylosidase (U)	(70°C, pH 6.6) (50°C, pH 5.5) (50°C, pH 5.5) (50°C, pH 5.5) (50°C, pH 5.5)	Sample Sample Sample Sample	2,500 2,500 1,800 1,800
2 3 4 5 6 7	Alpha-amylase (DU) Alpha-galactosidase (U) Beta-glucanase (U) Beta-glucosidase (U) Beta-xylosidase (U) Cellulase (U)	(70°C, pH 6.6) (50°C, pH 5.5) (50°C, pH 5.5) (50°C, pH 5.5) (50°C, pH 5.5)	Sample Sample Sample Sample Sample	2,500 2,500 1,800 1,800 1,700
2 3 4 5 6 7 8	Alpha-amylase (DU) Alpha-galactosidase (U) Beta-glucanase (U) Beta-glucosidase (U) Beta-xylosidase (U) Cellulase (U) Cellulase (Fpase) (FPU)	(70°C, pH 6.6) (50°C, pH 5.5) (50°C, pH 5.5) (50°C, pH 5.5) (50°C, pH 5.5) (50°C, pH 5.5) (50°C, pH 5.5)	Sample Sample Sample Sample Sample Sample	2,500 2,500 1,800 1,800 1,700



Enzyme Testing				
Description		Unit	Company	
Individual e	nzyme	Assay condition	Offic	Company
12	Lipase (U)	(37°C, pH 8.0)	Sample	1,700
13	Mannanase (U)	(50°C, pH 5.5)	Sample	1,800
14	Pectinase (U)	(50°C, pH 5.5)	Sample	1,700
15	Phytase (U)	(40°C, pH 5.5)	Sample	1,700
16	Protease (U)	(37°C, pH 7.5)	Sample	1,700
17	Xylanase (U)	(50°C, pH 5.5)	Sample	1,800
18	Pullulanase (U)	(40°C, pH 5.0)	Sample	2,500
19	Glucoamylase (U)	(50°C, pH 4.5)	Sample	2,500
20	Polyphenol oxidase (U)	(25°C, pH 6.5)	Sample	2,100
21	Peroxidase (U)	(25°C, pH 6.0)	Sample	2,100
Multi-enzyr	nes		Unit	Company
Package 1	(Cel, Xyl, Amy, Man, Pro, Phy)		Sample	5,800
Package 2	Package 2 (Cel, Xyl, Amy, Man, Pro)		Sample	4,900
Package 3	Package 3 (Cel, Xyl, Amy, Man)		Sample	4,200
Package 4	(Cel, Xyl, Amy)		Sample	3,300

Remar

* User methods (Extra charge)

User me	Real-time PCR				
	Description	Unit	Company		
1	Real-time PCR	Hr	700		
2	GMOs				
	2.1 Quanlitative: GMO Screening test 35S CaMV – promoter, NOS – terminator (Detected/Not-detected)	Sample	2,500		
	2.2 Quantitative detection of genetically modified Maize MON810 in Corn and Corn Products	Sample	3000		
3	Meat species and authenticity				
	3.1 Quanlitative: Porcine (Pork) Screening test in Food and Feed (Detected/Not-detected)	Sample	3,000		
	3.2 Quantitative detection of Porcine (Pork) DNA in Food and Feed	Sample	3500		
	Protein analysis (SDS-PAGE)				
	Description	Unit	Company		
1	Sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-Page) Staining: Coomassie Brilliant Blue staining Protein assay type: Bradford protein assay/Lowry protein assay Gel Polyacrylamide percentage: 10%/12%/15% Protein marker: 10-250 kDa	Sample	800		
2	Sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-Page) Staining: Silver staining Protein assay type: Bradford protein assay/Lowry protein assay Gel Polyacrylamide percentage: 10%/12%/15% Protein marker: 10-250 kDa	Sample	1,000		
	Anti-bacteria test				
	Description	Unit	Company		
1	Qualitative: Antibacterial activity assessment of textile materials : Parallel streak method (AATCC 147)	Sample/Strain	1,500		
2	Qualitative: Testing for antibacterial activity and efficacy on textile products (JIS L 1902)	Sample/Strain	1,500		
3	Qualitative: Antimicrobial disk susceptibility tests (CLSI M02-A11)	Sample/Strain	1,500		
4	Quantitative: Antibacterial finishes on textile materials (AATCC 100)	Sample/Strain	3,500		
5	Quantitative: Testing for antibacterial activity and efficacy on textile products (JIS L 1902)	Sample/Strain	3,500		
6	Quantitative: Antibacterial products – Test for antibacterial activity and efficacy (JIS Z 2801)	Sample/Strain	3,500		

^{*} Another Assay condition (pH) price increase 500 Baht/Sample



	Anti-bacteria test		
	Description	Unit	Company
7	Quantitative: Measurement of antibacterial activity on plastics and other non-porous surfaces (ISO 22196)	Sample/Strain	3,500
8	Quantitative: Determination of minimal inhibitory concentrations of aerobic bacteria (CLSI M07-A9)	Sample/Strain	3,000
9	Quantitative: Standard test method for determining the antimicrobial activity of immobilized antimicrobial agents under dynamic contact conditions (ASTM E 2149)	Sample/Strain	3,500
	Mutagenicity test		
	Description	Unit	Company
1	Bacterial reverse mutation test (Ames test)	Sample/5 Strain	30,000
	Total plate count		
	Description	Unit	Company
1	Bacteria	Sample	1,500
2	Yeast/Mold	Sample	1,500
3	After sterilization	Sample	2,000
	Selective and differential media		
	Description	Unit	Company
1	Escherichia coli	Sample	1,500
2	Salmonella sp.	Sample	1,500
3	Vibrio sp.	Sample	1,500
4	Staphylococcus sp.	Sample	1,500
5	Pseudomonas aeruginosa	Sample	1,500
	Disinfectant testing		
	Description	Unit	Company
1	AOAC official method 961.02 germicidal spray products as disinfectants	Sample/3 strains	15,000
2	Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas (EN 1276)	Sample/4 strains	13,000
	HPLC-FLD		
	Description	Unit	Company
1	HPLC-FLD : Trial condition within 3 h	Sample	4,300
2	HPLC-FLD : Customer condition	Sample	3,400
3	HPLC-FLD : ตัวอย่างตัวที่ 2 เป็นดันไป	Sample	1,400
4	Amino acid analysis : Na-Type (17 amino acids)	Sample	11,500
5	Amino acid analysis : Na-Type (ตัวอย่างตัวที่ 2 เป็นตันไป)	Sample	5,100
6	Amino acid analysis : Li-Type (38 amino acids)	Sample	25,000
7	Amino acid analysis : Li-Type (ดัวอย่างตัวที่ 2 เป็นตันไป)	Sample	7,900
	GC-TCD/BID		
	Description	Unit	Company
1	Trial condition within 3 h	Sample	3,800
2	Customer condition	Sample	1,600



	HPLC-PDA/RI		
	Description	Unit	Company
1	Trial condition within 3 h (for 1 sample)	Sample	4,300
2	Customer condition (for 1 sample)	Sample	3,400
3	If more than 1 sample	Sample	1,400
	Texture Analysis		
	Description	Unit	Company
1	Texture Analysis	1 Sample	500
2	Texture Analysis	3 Sample	1,200
3	Texture Analysis	5 Sample	1,800
	Mechanical Property Testing		
	Description	Unit	Company
1	Tensile test (Rubber and Polymer) 10kN - 100kN, Static type	1 Sample	600
2	Tensile test (Rubber and Polymer) 10kN - 100kN, Static type	3 Sample	1,500
3	Tensile test (Rubber and Polymer) 10kN - 100kN, Static type	5 Sample	2,000
4	Tensile test (Metals and Alloys) 25kN - 100kN, Dynamic type	1 Sample	600
5	Tensile test (Metals and Alloys) 25kN - 100kN, Dynamic type	3 Sample	1,500
6	Tensile test (Metals and Alloys) 25kN - 100kN, Dynamic type	5 Sample	2,000
7	Flexural and Bending test (Polymer and composites) 10kN-100kN, Static type	1 Sample	600
8	Flexural and Bending test (Polymer and composites) 10kN-100kN, Static type	3 Sample	1,500
9	Flexural and Bending test (Polymer and composites) 10kN-100kN, Static type	5 Sample	2,000
10	Flexural and Bending test (Metals and Alloys) 10kN - 100kN, Dynamic type	1 Sample	600
11	Flexural and Bending test (Metals and Alloys) 10kN - 100kN, Dynamic type	3 Sample	1,500
12	Flexural and Bending test (Metals and Alloys) 10kN - 100kN, Dynamic type	5 Sample	2,000
13	Compressive test (Polymer) 10kN - 100kN, Static type	1 Sample	600
14	Compressive test (Polymer) 10kN - 100kN, Static type	3 Sample	1,500
15	Compressive test (Polymer) 10kN - 100kN, Static type	5 Sample	2,000
16	Compressive test (Metals and Alloys) 10kN - 100kN, Dynamic type	1 Sample	600
17	Compressive test (Metals and Alloys) 10kN - 100kN, Dynamic type	3 Sample	1,500
18	Compressive test (Metals and Alloys) 10kN - 100kN, Dynamic type	5 Sample	2,000
19	Torsion test (Metals and Alloys) (Max Torque 200 N·m)	1 Sample	500
20	Torsion test (Metals and Alloys) (Max Torque 200 N·m)	3 Sample	1,200
21	Torsion test (Metals and Alloys) (Max Torque 200 N·m)	5 Sample	1,800
22	Impact test (Polymer) at 23±2 °C, 50±5 %RH (Izod and Charpy)	1 Sample	500
23	Impact test (Polymer) at 23±2 °C, 50±5 %RH (Izod and Charpy)	3 Sample	1,200
24	Impact test (Polymer) at 23±2 °C, 50±5 %RH (Izod and Charpy)	5 Sample	1,800
25	Impact test (Polymer) at 21 °C to -40 °C (Izod and Charpy)	1 Sample	500
26	Impact test (Polymer) at 21 °C to -40 °C (Izod and Charpy)	3 Sample	1,200
27	Impact test (Polymer) at 21 °C to -40 °C (Izod and Charpy)	5 Sample	1,800
28	Liquid Nitrogen 180 kg	Unit	6,500
29	Notching specimen for impact testing (ISO and ASTM)	1 Sample	150
30	Die cutting specimen for tensile testing (ASTM D412)	1 Sample	150



	Mechanical Property Testing		
	Description	Unit	Company
31	Ring Stiffness, HDPE	1 Sample	600
32	Ring Stiffness, HDPE	3 Sample	1,500
33	Ring Stiffness, HDPE	5 Sample	2,000
34	Pipe Stiffness	1 Sample	600
35	Pipe Stiffness	3 Sample	1,500
36	Pipe Stiffness	5 Sample	2,000
37	Fatique test (Polymer and Rubber)	1 hour	600
38	Fatique test (Metals and Alloys)	1 hour	600
39	Tensile test (Rubber and Polymer) 10kN-100kN, Static type at 25°C to 250°C	1 Sample	700
40	Tensile test (Rubber and Polymer) 10kN-100kN, Static type at 21°C to -35°C	1 Sample	700
41	Flexural and Bending test (Rubber and Polymer) 10kN-100kN, Static type at 25°C to 250°C	1 Sample	700
42	Flexural and Bending test (Rubber and Polymer) 10kN-100kN, Static type at 21°C to -35°C	1 Sample	700
43	Rockwell Hardness (5 points)	1 Sample	500
44	Rockwell Hardness (Additional point)	1 point	100
45	Brinell Hardness (5 points)	1 Sample	500
46	Brinell Hardness (Additional point)	1 point	100
47	Vickers Microhardness (5 points)	1 Sample	650
48	Vickers Microhardness (Additional point)	1 point	100
49	Vickers Microhardness (Depth Profile)	1 Sample	1,000
50	Vickers Microhardness (Depth Profile), (Additional area)	1 point	250
51	Durometer Hardness (5 points)	1 Sample	500
52	Durometer Hardness (Additional point)	1 point	100
	Immunoaffinity Column / Fluorometry		
	Description	Unit	Company
1	Aflatoxin (Total)	Sample	1,800
	Resistant Starch		
-	Description	Unit	Company
1	Resistant Starch (%RS)		
1		Sample	2,500
	Amylose		
	Description	Unit	Company
1	Amylose Content (%AC)	Sample	1,200
	Personal Protection Equipment Testing (PPE Testi	ing)	
	Description	Unit	Company
1	Determination of a population of microorganisms on products (Cleanliness –microbial- EN ISO 11737-1)	Sample	3,500
2	Resistance to wet bacterial penetration (EN ISO 22610)	Sample	8,000
3	Resistance to dry bacterial penetration (EN ISO 22612)	Sample	16,000
	Microbial contamination (Cannabis)		
	Description	Unit	Company
1	Microbial contamination	Sample	1,500
	Growth analysis		_,
		1 10 %	Common
	Description	Unit	Company
1	Growth analysis	Sample	6,000



Microwave Digestion ยี่ห้อ Milestone รุ่น UltraWAVE			
	Description	Unit	Company
1	Microwave Digestion UltraWave for ICP-AES	Sample	1,200
2	Microwave Digestion UltraWave for ICP-MS	Sample	1,900
	Surface Analyzer (Physisorption and Chemisorption)	
	Description	Unit	Company
1	Physisorption-BET (Surface area)	Sample	4,000
2	Physisorption-Isotherm (Surface area and porosity meter analyzer)	hour	800
3	Chemisorption-Static volumetric chemisorption	Sample	4,200
4	Chemisorption-Temperature program (Oxidation/Reduction/Desorption)	Sample	4,200
	Nanosizer (Dynamic light scattering: DLS)		
	Description	Unit	Company
1	Particle size analysis (For water dispersion sample)	Sample	1,200
2	Particle size analysis (For solvents and oil dispersion sample)	hour	2,000
3	Zeta potential (For water dispersion sample)	Sample	1,600
4	Zeta potential (For solvents and oil dispersion sample)	Sample	2,400
	Electron Probe Microscope Analyzer (EPMA)		
	Description	Unit	Company
1	Operation time	hour	6,600
2	Imaging	Pic.	100
3	Elemental analysis-Line scan/Point scan/Area scan	Pic.	500
4	Elemental analysis-Mapping	Pic.	1,000

**Remark

- Test Report 1,000.- **B**

Contact NCTC

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