



ECSAINE[®]

FOR INDUSTRIAL APPLICATIONS

'TORAY'

Innovation by Chemistry

Major Product Lineup

Ecsaine®



3000J



3000JN



700W



100E



500R



500Z

GS Felt



32106NM



K40008S



12109NM



EE310SS



K10021M



K10250D

Ecsaine® Plus



2000J Light Type



F700W Halogen-less Type



F3000J Halogen-less Type

Specifications

Ecsaine®

	3000J	3000JN Flame Retardant UL94VTM-2	700W	100E	500R	500Z	Test Method
Dimensions (mm) x (m)	1360x30	1360x30	1150x30	1150x30	1200x30	1150x30	
Composition (%) Polyester	65	65	65	65	65	65	
	Polyurethane	35	35	35	35	35	
Denier	0.14	0.14	0.14	0.14	0.14	0.14	
Thickness (mm)	0.49	0.49	0.55	0.8	1.2	1.7	Dial Thickness Gauge
Tolerance (mm)	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	
Weight (g/m ²)	115	130	125	220	355	—	
Tensile Strength (kg/cm) Longitudinal	3.2	3.6	4.0	7.4	12.6	—	JIS L-1096A
	Transverse	2.3	2.5	3.0	6.4	10.2	
Tensile Elongation (%) Longitudinal	62	67	65	72	96	—	JIS L-1096A
	Transverse	87	77	120	114	133	
Tear Strength (kg/cm) Longitudinal	0.5	0.6	0.6	1.1	2.2	—	JIS L-1096A
	Transverse	0.4	0.4	0.4	0.9	1.6	

Data based on our own measurement and not certified

GS Felt

	32106NM (=12106NM)	K40008S	12109NM	EE310SS	K10021M	K10250D	Test Method
Dimensions (mm) x (m)	1150x30	1150x30	1150x30	1150x30	1150x120	1200x30	
Composition (%) Polyester	75	65	80	65	65	60	
	Polyurethane	25	35	20	35	35	40
Denier	0.04	0.14	0.04	0.14	0.14	0.14	
Thickness (mm)	0.6	0.8	0.9	1.0	2.1	3.0	Dial Thickness Gauge
Tolerance (mm)	±0.1	±0.1	±0.1	±0.1	-0.25, +0.15	-0.4, +0.05	
Weight (g/m ²)	230	225	350	305	565	910	
Tensile Strength (kg/cm) Longitudinal	10.0	7.0	18.0	12.0	27.0	40.0	JIS L-1096A
	Transverse	8.0	5.0	14.0	9.0	22.0	
Tensile Elongation (%) Longitudinal	88	70	90	90	100	110	JIS L-1096A
	Transverse	132	130	125	140	160	
Tear Strength (kg/cm) Longitudinal	3.1	1.6	5.0	3.0	6.4	6.4	JIS L-1096A
	Transverse	2.6	0.8	4.1	1.8	4.8	

Data based on our own measurement and not certified

Ecsaine® Plus

2000J (Light Type)		F700W (Halogen-less Type)		F3000J (Halogen-less Type)	
Dimension (mm) x (m)	1450x30	Fluorine	N.D.	Fluorine	N.D.
Composition (%) Polyester	65	Chlorine	<500ppm	Chlorine	<500ppm
	Polyurethane	35	Bromine	N.D.	Bromine
Thickness (mm)	0.43	Iodine	N.D.	Iodine	N.D.
Tolerance (mm)	±0.1				
Lightest grade Ecsaine®		Data based on our own measurement and is not certified.		Data based on our own measurement and is not certified.	

Ecsaine® and GS Felt for Industrial Applications

Products/ Precesses	Applications	Performance Advantages
Audio	CD/DVD curtains Disc tray cushions Speaker cone edge	Scratch-resistant Superior recovery from bending Stability against heat and moisture Precision trimming and die-cutting; no fraying
Printers	Toner-sealing materials Cleaning rollers Head cleaner	Wipe-clean performance Microparticle collection and retention Superior glidability Precision trimming and die-cutting; no fraying
Notebook PCs	Heat insulators	Heat insulation Visual creativity and tactility Abrasion-resistant Precision trimming and die-cutting; no fraying
Gas Lighters	Gas flow control filters	Micropore structure allows gas flow High density and sealability Uniformity Precision trimming and die-cutting; no fraying
Cameras	Light shield for sliding parts Shock absorber	High density and sealability Elasticity Uniform friction coefficient Precision trimming and die-cutting; no fraying
Pianos	Skins for action parts	Abrasion-resistant Uniformity Elasticity Highly moldable to curved surfaces
Ultra Precision Polishing	Polishing tapes Polishing pads	Microparticle retention Uniformity Scratch-resistant Elasticity
Steel and Automotive Manufacturing	Absorption rolls	Water absorbing micropore structure Uniformity Abrasion-resistant Elasticity
Various Manufacturing and Finishing Processes	Wiping Clothes	Wipe-clean performance Water retention Scratch-resistant Superior glidability
Conveyor Systems	Conveyor Belt Surface Protective Cushion Materials	Scratch-resistant Highly moldable to curved surfaces Elasticity Abrasion-resistant

Management of Chemicals and Environmentally Related Substances

At Toray, we make restricting environmentally hazardous substances and complying to directives such as RoHS and REACH our top priority. We receive certified data from independent testing organizations regarding any chemical substances that have a high risk of containing hazardous elements, and we enforce quality controls by using an X-ray fluorescence spectrometer on everything we produce prior to shipping. For further information on how Toray manages these substances, please contact us directly.

'TORAY'

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