TOUGHLONG

- TOUGHLONG ES5
- ☐ TOUGHLONG ES5 Gray / Brown
- TOUGHLONG MicroCell
- TOUGHLONG ToughSheet

















TOUGHLONG Series – it complies with users' expectation in every scenes.



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Inquiry

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DUGHLONG - MicroCell



A wide, double sided skin, closed cells and long roll form EPDM Rubber Sponge sheet produced with unique manufacturing processes as a rubber Extruding/Molding manufacturer. It has excellent performance in sealing at low compression ratio, heat insulation and shock absorption. It is recommended for the application requiring higher durability than Toughlong - ESS.

MicroCell 10

MicroCell 20

Material

Supply shape

Effective Width

Thickness(mm)

Extruded Sponge Roll Higher Hardness at Low Density

Extruded Sponge Roll but with molded sponge property

1,000mm

3,5,10,15 Standard 10m/roll



Specs

Material	Closed Cell EPDM Rubber Sponge	
Supply shape	Roll/ Sheet / Slit Roll	
Effective Width	1,000mm	
Thickness(mm)	3,5,10,15	
Length/Roll	Standard 10m/roll	





Water repulsive by double sided skin

- Standard package = Roll form (10m/roll)
- Better yield rate for die-cutting
- Water sealing at low compression ratio
- Complied with flame resistance standard (UL-94 HBF•FMVSS302)

Application

Water seal, Gap filler, Insulation, Cushioning, Anti-slip, Sound Absorption etc.

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77.0		
77		
		1/2/5/8/11
		110
1000		

Physical Property Test		Unit	Re	sult	Test Condition
	rilysical rioperty rest	Offic	10	20	rest condition
	Tensile Strength (Tb)	N/mm	0.41	0.67	J I S K6251
	Elongation at break (Eb)	%	160	180	JI2 K023 I
Nomina	Hardness/Asker C (Hs)	Pts	11	19	JIS K7312
nina	25% Compression Load	kPa	40	60	Compression Speed
	50% Compression Load	kPa	109	153	10mm/min
	Specific Gravity	-	0.13	0.2	Archimedean method
Water	10% Compression	_	×	×	○ No leakage for 30mins
iter s	25% Compression	_	0	0	× Leakage within 10 mins
Seal	50% Compression	_	0	0	A Leakage Within To mins
Aging	Change % in Tb	%	0	+14	
ing t	Change % in Eb	%	0	-10	100°C×72Hours
test	Change pts in Hs	Pts	+1	+3	

Remarks: The above is tested using 5mm thick samples. These values are referential purpose only.

Water repulsive by double sided skin

Better yield rate for die-cutting

Standard package = Roll form (10m/roll)

Sumitomo Chemical × Okayasu Rubber / Joint Development

Closed Cell EPDM Rubber Sponge Roll/ Sheet / Slit Roll

Thin Rolled EPDM Rubber Sponge Sheet

GHLONG - ToughSheet

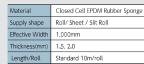


A wide, double sided skin, closed cells, long roll form and thin EPDM Rubber Sponge sheet produced with unique manufacturing processes as a rubber Extruding/Molding manufacturer. It has excellent performance in sealing at low compression ratio, heat insulation and shock absorption. It is recommended as an alternative material for elastomeric sheets for weight saving purpose.

ToughSheet 25

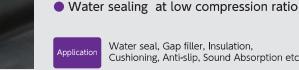
Thin & Light Rolled Sponge Sheet











Water seal, Gap filler, Insulation, Cushioning, Anti-slip, Sound Absorption etc.

ToughSheet 50

Less than 1.0mm thickness As a sponge sheet!



Material	Closed Cell EPDM Rubber Sponge
Supply shape	Roll/ Sheet / Slit Roll
Effective Width	500mm
Thickness(mm)	0.5, 1.0
Length/Roll	Standard 10m/roll





	Dhusiaal Danastu Test		hysical Property Test Unit Result		Test Condition
	Physical Property Test	Unit	25 50		rest Condition
	Tensile Strength (Tb)	N/mm	0.63	3.24	JIS K6251
	Elongation at break (Eb)	%	320	270	JI3 K0Z3 I
Nomina	Hardness/Asker C (Hs)	Pts	23	48	JIS K7312
lina	25% Compression Load	kPa	80	95	Compression Speed
	50% Compression Load	kPa	195	321	10mm/min
	Specific Gravity	-	0.23	0.83	Archimedean method
Water	10% Compression	_	×	_	○ No leakage for 30mins
iter S	25% Compression	_	0	_	○ No leakage for 30mins × Leakage within 10 mins
ea	50% Compression	_	0	_	x Leakage within 10 mins
Aging	Change % in Tb	%	0	-4	
ing t	Change % in Eb	%	-7	-19	100°C×72Hours
test	Change pts in Hs	Pts	+4	+2	

Remarks: ToughSheet 25 result above is tested using 2mm thick samples. ToughSheet 50 result above is tested using 1mm thick samples. These values are referential purpose only.

Rolled EPDM Rubber Sponge Sheet

TOUGHLONG - ES5



A wide, double sided skin, closed cells and long roll form EPDM Rubber Sponge sheet produced with unique manufacturing processes as a rubber Extruding/Molding manufacturer. It has excellent performance in sealing at low compression ratio, heat insulation and shock absorption.

A variety of thickness

Wide, Double sided skin and Roll form Sponge Sheet







Material	Closed Cell EPDM Rubber Sponge	
Supply shape	Roll/ Sheet / Slit Roll	
Effective Width	1,000mm	
Thickness(mm)	2,3,4,5,8,10,15,20	
	(6.7.9.11~14 => Made upon order)	
Length/Roll	Standard 10m/roll	

- Water repulsive by double sided skin
- Standard package = Roll form (10m/roll)
- Better yield rate for die-cutting
- Water sealing at low compression ratio
- Complied with flame resistance standard (UL-94 HBF•FMVSS302)



Water seal, Gap filler, Insulation, Cushioning, Anti-slip, Sound Absorption etc.

	Physical Property Test	Unit	Resu l t	Test Condition
	Tensile Strength (Tb)	N/mm	0.32	JIS K6251
	Elongation at break (Eb)	%	180	JJ3 K0231
Nomina	Hardness/Asker C (Hs)	Pts	5	JIS K7312
ina	25% Compression Load	kPa	34	Compression Speed
	50% Compression Load	kPa	105	10mm/min
	Specific Gravity	_	0.13	Archimedean method
Water	10% Compression	_	×	○ No leakage for 30mins
	25% Compression	_	0	× Leakage within 10 mins
ea	50% Compression	_	0	A Leakage Within 10 mins
Aging	Change % in Tb	%	±0	
ing t	Change % in Eb	%	-11	100℃×72Hours
test	Change pts in Hs	Pts	+1	

Remarks : The above is tested using 5mm thick samples. These values are referential purpose only.

TOUGH LONG ESS

Rolled EPDM Rubber Sponge Sheet / Color

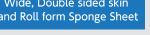
TOUGHLONG - ES5 Gray / Brown



A wide, double sided skin, closed cells and long roll form EPDM Rubber Sponge sheet produced with unique manufacturing processes as a rubber Extruding/Molding manufacturer. It has excellent performance in sealing at low compression ratio, heat insulation and shock absorption. Other variation of colors may be available upon request.

A Variety of colors and thickness

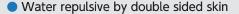
Wide, Double sided skin and Roll form Sponge Sheet







*Other colors may be available upon request. (Please do not hesitate to query)



- Standard package = Roll form (10m/roll)
- Better yield rate for die-cutting



Water seal, Gap filler, Insulation, Cushioning, Anti-slip, Sound Absorption etc.



Material	Closed Cell EPDM Rubber Sponge		
Supply shape	Roll/ Sheet / Slit Roll		
Effective Width	1,000mm		
Thickness(mm)	3.5.10.15		
Length/Roll Standard 10m/roll			

Physical Property Test		Unit	Re	sult	Test Condition
	rnysical rioperty rest	Unit	Gray	Brown	rest Condition
	Tensile Strength (Tb)	N/mm	0.28	0.33	JIS K6251
	Elongation at break (Eb)	%	180	180	JI3 K023 I
Non	Hardness/Asker C (Hs)	Pts	7	7	JJS K7312
Nomina	25% Compression Load	kPa	35	37	Compression Speed
	50% Compression Load	kPa	105	109	10mm/min
	Specific Gravity	-	0.12	0.12	Archimedean method
Water	10% Compression	_	×	×	○ No leakage for 30mins
ter S	25% Compression	_	0	0	× Leakage within 10 mins
Sea	50% Compression	-	0	0	× Leakage Within 10 mins
Aging	Change % in Tb	%	±0	-6	
ing t	Change % in Eb	%	-21	-20	100°C×72Hours
test	Change pts in Hs	Pts	+2	+2	

Remarks: The above is tested using 5mm thick samples. These values are referential purpose only.

TOUGHLONG Series Product List

TOUGHLONG - ES5 Sheet

Thickness(mm)	Width(mm)	Length(mm)	Double Sided Tape
3	300	300	
3	500	500	
5	300	300	
3	500	500	
10	300	300	
10	500	500	
15	300	300	
13	500	500	
20	300	300	
20	500	500	
3	300	300	With Tape
3	500	500	With Tape
5	300	300	With Tape
3	500	500	With Tape
10	300	300	With Tape
10	500	500	With Tape
15	300	300	With Tape
13	500	500	With Tape
20	300	300	With Tape
20	500	500	With Tape

TOUGHLONG - ES5

Slit Roll with Double Sided Tape

Slit Roll with Double Sided Tape					
Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape		
	5	10	With Tape		
	10	10	With Tape		
	15	10	With Tape		
,	20	10	With Tape		
3	25	10	With Tape		
	30	10	With Tape		
	50	10	With Tape		
	100	10	With Tape		
	5	10	With Tape		
	10	10	With Tape		
	15	10	With Tape		
	20	10	With Tape		
5	25	10	With Tape		
	30	10	With Tape		
	50	10	With Tape		
	100	10	With Tape		
	10	10	With Tape		
	15	10	With Tape		
	20	10	With Tape		
10	25	10	With Tape		
	30	10	With Tape		
	50	10	With Tape		
	100	10	With Tape		
	10	10	With Tape		
	15	10	With Tape		
	20	10	With Tape		
15	25	10	With Tape		
	30	10	With Tape		
	50	10	With Tape		
	100	10	With Tape		
	15	5	With Tape		
	20	5	With Tape		
20	25	5	With Tape		
20	30	5	With Tape		
	50	5	With Tape		
	100	5	With Tape		

TOUGHLONG - ES5

1000mm wide Roll



Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape
2	1000	10	
3	1000	10	
4	1000	10	
5	1000	10	
8	1000	10	
10	1000	10	
15	1000	10	
20	1000	5	
3	1000	10	With Tape
5	1000	10	With Tape
10	1000	10	With Tape
15	1000	10	With Tape
20	1000	5	With Tape

TOUGHLONG - ES5 Gray/Brown

Slit Roll with Double Sided Tape

Thickness/mm) Width/mm) Length/M) Double Sided Tape 5				
10 10 With Tape 25 10 With Tape 30 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 11 10 10 With Tape 12 10 With Tape 15 10 With Tape 25 10 With Tape 25 10 With Tape 25 10 With Tape 26 10 With Tape 27 10 With Tape 28 10 With Tape 29 10 With Tape 10 10 With Tape 11 10 10 With Tape 11 10 With Tape 12 10 With Tape 13 10 With Tape 14 20 10 With Tape 26 10 With Tape 27 10 With Tape 28 10 With Tape 29 10 With Tape 10 10 With Tape 11 10 With Tape 12 10 With Tape 13 10 With Tape 14 10 With Tape 15 10 With Tape 16 10 With Tape 17 10 With Tape 18 10 With Tape 19 10 With Tape 19 10 With Tape 10 With Tape 10 With Tape 11 10 With Tape 11 10 With Tape 12 10 With Tape 13 10 With Tape 14 10 With Tape 15 10 With Tape 16 10 With Tape 17 10 With Tape 18 10 With Tape 19 10 With Tape 19 10 With Tape 10 With Tape	Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape
3 20 10 With Tape 25 10 With Tape 50 10 With Tape 10 11 With T		5	10	With Tape
3 20 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 5 10 With Tape 10 10 With Tape 115 10 With Tape 25 10 With Tape 25 10 With Tape 30 10 With Tape 30 10 With Tape 50 10 With Tape 15 10 With Tape 16 10 With Tape 17 10 With Tape 18 10 With Tape 19 10 With Tape 19 10 With Tape 10 With Tape 10 With Tape 10 With Tape 11 With Tape 12 10 With Tape 15 10 With Tape 16 10 With Tape 17 10 With Tape 18 10 With Tape 19 10 With Tape 10 With Tape 10 With Tape 10 With Tape 11 With Tape 12 10 With Tape 15 10 With Tape 16 With Tape 17 10 With Tape 18 10 With Tape 19 With Tape 19 With Tape 10 With Tape 10 With Tape 11 With Tape 11 With Tape 12 With Tape 13 With Tape 14 With Tape 15 With Tape 16 With Tape 17 With Tape 18 With Tape 19 With Tape 19 With Tape 20 With Tape 20 With Tape 20 With Tape 21 With Tape 22 With Tape 23 With Tape 24 With Tape 25 With Tape 26 With Tape 27 With Tape 28 With Tape 29 With Tape 20 With Tape		10	10	With Tape
25 10 With Tape 30 10 With Tape 50 10 With Tape 5 10 With Tape 10 10 With Tape 15 10 With Tape 15 10 With Tape 25 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 10 10 With Tape 25 10 With Tape 50 10 With Tape 10 10 With Tape 20 10 With Tape 21 10 With Tape 25 10 With Tape 15 10 With Tape 16 10 With Tape 17 10 With Tape 18 10 With Tape 19 10 With Tape 20 10 With Tape 21 10 With Tape 22 10 With Tape 25 10 With Tape 26 10 With Tape 27 10 With Tape 28 10 With Tape 29 10 With Tape 20 10 With Tape 20 10 With Tape 21 10 With Tape 22 10 With Tape 23 10 With Tape 25 10 With Tape 26 10 With Tape		15	10	With Tape
30 10 With Tape 50 10 With Tape 5 10 With Tape 10 10 With Tape 15 10 With Tape 15 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 15 10 With Tape 10 10 With Tape 10 10 With Tape 10 10 With Tape 11 10 With Tape 25 10 With Tape 25 10 With Tape 15 10 With Tape 25 10 With Tape 16 10 With Tape 17 10 With Tape 18 10 With Tape 19 10 With Tape 11 With Tape 12 With Tape 13 With Tape 14 With Tape 15 With Tape 16 With Tape 17 With Tape 18 With Tape 19 With Tape 10 With Tape 10 With Tape 11 With Tape 11 With Tape 12 With Tape 13 With Tape 14 With Tape 15 With Tape 16 With Tape 17 With Tape 18 With Tape 19 With Tape 10 With Tape 10 With Tape 10 With Tape 10 With Tape 11 With Tape 11 With Tape 12 With Tape 13 With Tape 14 With Tape 15 With Tape 16 With Tape 17 With Tape 18 With Tape 19 With Tape 10 With Tape 11 With Tape 11 With Tape 11 With Tape 12 With Tape 13 With Tape 14 With Tape 15 With Tape 16 With Tape 17 With Tape 18 With Tape 18 With Tape 19 With Tape 10 With Tape	3	20	10	With Tape
50 10 With Tape 5 10 With Tape 10 10 With Tape 15 10 With Tape 15 10 With Tape 25 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 15 10 With Tape 15 10 With Tape 16 10 With Tape 17 10 With Tape 18 10 With Tape 29 10 With Tape 20 10 With Tape 20 10 With Tape 30 10 With Tape 10 10 With Tape 11 10 With Tape 25 10 With Tape 16 10 With Tape 17 10 With Tape 18 10 With Tape 19 10 With Tape 19 10 With Tape 10 With Tape 10 With Tape 10 With Tape 11 10 With Tape 12 10 With Tape 13 10 With Tape 14 10 With Tape 15 10 With Tape 16 10 With Tape 17 10 With Tape 18 10 With Tape 19 10 With Tape 19 10 With Tape 11 With Tape		25	10	With Tape
5 10 With Tape 10 10 With Tape 15 10 With Tape 20 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 10 10 With Tape 11 10 10 With Tape 12 10 With Tape 15 10 With Tape 25 10 With Tape 26 10 With Tape 30 10 With Tape 17 10 With Tape 18 10 With Tape 19 10 With Tape 11 With Tape 12 With Tape 13 With Tape 14 With Tape 15 With Tape 16 With Tape 17 With Tape 18 With Tape 19 With Tape 19 With Tape 10 With Tape		30	10	With Tape
10 10 With Tape 15 10 With Tape 20 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 10 10 With Tape 10 10 With Tape 20 10 With Tape 25 10 With Tape 20 10 With Tape 30 10 With Tape 50 10 With Tape 15 10 With Tape 15 10 With Tape 10 10 With Tape 15 10 With Tape 25 10 With Tape 26 10 With Tape 27 10 With Tape 28 10 With Tape 29 10 With Tape		50	10	With Tape
15 10 With Tape 25 10 With Tape 30 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 110 10 With Tape 120 10 With Tape 20 10 With Tape 25 10 With Tape 30 10 With Tape 30 10 With Tape 10 10 With Tape 110 10 With Tape 110 10 With Tape 111 10 10 With Tape 112 10 With Tape 113 10 With Tape 114 10 With Tape 115 10 With Tape 115 10 With Tape 116 10 With Tape 117 10 With Tape 118 10 With Tape 119 10 With Tape 119 10 With Tape 110 With Tape 111 110 With Tape 112 110 With Tape 113 110 With Tape		5	10	With Tape
5 20 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 11 10 10 With Tape 20 10 With Tape 25 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 11 10 10 With Tape 12 10 With Tape 15 10 With Tape 15 10 With Tape 15 10 With Tape 15 10 With Tape 25 10 With Tape 16 20 10 With Tape 27 10 With Tape 28 10 With Tape 29 10 With Tape 29 10 With Tape 20 10 With Tape		10	10	With Tape
25 10 With Tape		15	10	With Tape
10 30 10 With Tape	5	20	10	With Tape
10 10 With Tape 10 10 With Tape 10 10 With Tape 10 20 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 15 20 10 With Tape 25 10 With Tape 25 10 With Tape 30 30 With Tape 30 With Tape		25	10	With Tape
10 10 With Tape 15 10 With Tape 20 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 11 10 10 With Tape 12 10 With Tape 15 10 With Tape 15 20 10 With Tape 25 10 With Tape 25 10 With Tape 30 10 With Tape		30	10	With Tape
15 10 With Tape 20 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 11 10 With Tape 15 10 With Tape 25 10 With Tape 25 10 With Tape 25 10 With Tape 30 10 With Tape		50	10	With Tape
10 20 10 With Tape 25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 15 10 With Tape 20 10 With Tape 25 10 With Tape 25 10 With Tape 30 10 With Tape		10	10	With Tape
10 25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 10 10 With Tape 15 10 With Tape 15 10 With Tape 20 10 With Tape 25 10 With Tape 30 10 With Tape 10 With Tape 10 10 With Tap		15	10	With Tape
25 10 With Tape 30 10 With Tape 50 10 With Tape 10 10 With Tape 15 10 With Tape 20 10 With Tape 25 10 With Tape 30 10 With Tape	10	20	10	With Tape
50 10 With Tape	10	25	10	With Tape
10 10 With Tape 15 10 With Tape 20 10 With Tape 25 10 With Tape 30 10 With Tape		30	10	With Tape
15 10 With Tape 20 10 With Tape 25 10 With Tape 30 10 With Tape		50	10	With Tape
15 20 10 With Tape 25 10 With Tape 30 10 With Tape		10	10	With Tape
25 10 With Tape 30 10 With Tape		15	10	With Tape
25 10 With Tape 30 10 With Tape	15	20	10	With Tape
	''	25	10	With Tape
50 10 With Tape		30	10	With Tape
		50	10	With Tape

TOUGHLONG - ES5 Gray/Brown 1000mm wide Roll

0

Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape
3	1000	10	
5	1000	10	
10	1000	10	
15	1000	10	

■ TOUGHLONG - MicroCell 10

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			1
Thickness(mm)	Width(mm)	Length(mm)	Double Sided Tape
3	300	300	
'	500	500	
5	300	300	
,	500	500	
10	300	300	
10	500	500	
15	300	300	
13	500	500	
3	300	300	With Tape
2	500	500	With Tape
5	300	300	With Tape
)	500	500	With Tape
10	300	300	With Tape
10	500	500	With Tape
15	300	300	With Tape
15	500	500	With Tape

■ TOUGHLONG - MicroCell 10

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Sut Rou	Silt Roll with Double Sided Tape			
Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape	
	5	10	With Tape	
	10	10	With Tape	
	15	10	With Tape	
3	20	10	With Tape	
	25	10	With Tape	
	30	10	With Tape	
	50	10	With Tape	
	5	10	With Tape	
	10	10	With Tape	
	15	10	With Tape	
5	20	10	With Tape	
	25	10	With Tape	
	30	10	With Tape	
	50	10	With Tape	
	10	10	With Tape	
	15	10	With Tape	
10	20	10	With Tape	
10	25	10	With Tape	
	30	10	With Tape	
	50	10	With Tape	
	10	10	With Tape	
	15	10	With Tape	
15	20	10	With Tape	
,,,	25	10	With Tape	
	30	10	With Tape	
	50	10	With Tape	

TOUGHLONG - MicroCell 10 1000mm wide Roll

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Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape
3	1000	10	
5	1000	10	
10	1000	10	
15	1000	10	

TOUGHLONG - MicroCell 20

Sheet			***
Thickness(mm)	Width(mm)	Length(mm)	Double Sided Tape
3	300	300	
3	500	500	
5	300	300	
3	500	500	
10	300	300	
10	500	500	
15	300	300	
13	500	500	
3	300	300	With Tape
3	500	500	With Tape
5	300	300	With Tape
,	500	500	With Tape
10	300	300	With Tape
10	500	500	With Tape
15	300	300	With Tape
13	500	500	With Tape

■ TOUGHLONG - MicroCell 20 Slit Roll with Double Sided Tape

Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape
	5	10	With Tape
	10	10	With Tape
	15	10	With Tape
3	20	10	With Tape
	25	10	With Tape
	30	10	With Tape
	50	10	With Tape
	5	10	With Tape
	10	10	With Tape
	15	10	With Tape
5	20	10	With Tape
	25	10	With Tape
	30	10	With Tape
	50	10	With Tape
	10	10	With Tape
	15	10	With Tape
10	20	10	With Tape
10	25	10	With Tape
	30	10	With Tape
	50	10	With Tane

TOUGHLONG - MicroCell 20



With Tape

	· ········		
Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape
3	1000	10	
5	1000	10	
10	1000	10	
15	1000	10	

■ TOUGHLONG - ToughSheet 25

Thickness(mm)	Width(mm)	Length(mm)	Double Sided Tape
1.5	300	300	
1.5	500	500	
2.0	300	300	
2.0	500	500	
1.5	300	300	With Tape
	500	500	With Tape
2.0	300	300	With Tape
	500	500	With Tape

■ TOUGHLONG - ToughSheet 25 Slit Roll with Double Sided Tape

Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape
	5	10	With Tape
	10	10	With Tape
	15	10	With Tape
1.5	20	10	With Tape
	25	10	With Tape
	30	10	With Tape
	50	10	With Tape
	5	10	With Tape
	10	10	With Tape
	15	10	With Tape
2.0	20	10	With Tape
	25	10	With Tape
	30	10	With Tape
	50	10	With Tape

■ TOUGHLONG - ToughSheet 25 1000mm wide Roll

0

Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape
1.5	1000	10	
2.0	1000	10	
1.5	1000	10	With Tape
2.0	1000	10	With Tape

■ TOUGHLONG - ToughSheet 50

Thickness(mm)	Width(mm)	Length(mm)	Double Sided Tape
0.5	500	500	
1.0	500	500	
0.5	500	500	With Tape
1.0	500	500	With Tape

■ TOUGHLONG - ToughSheet 50 Slit Roll with Double Sided Tape

Thickness(mm)	Width(mm)	Length(M)	Double Sided Tape
0.5	5	10	With Tape
	10	10	With Tape
	15	10	With Tape
	20	10	With Tape
	25	10	With Tape
	30	10	With Tape
	50	10	With Tape
1.0	5	10	With Tape
	10	10	With Tape
	15	10	With Tape
	20	10	With Tape
	25	10	With Tape
	30	10	With Tape
	50	10	With Tape

■ TOUGHLONG - ToughSheet 50 1000mm wide Roll



hickness(mm)	Width(mm)	Length(M)	Double Sided Tape
0.5	500	10	
1.0	500	10	
0.5	500	10	With Tape
1.0	500	10	With Tape