

## TECHNICAL DATA

### Teonex®

#### Q51

#### ■ Characteristics

Standard grade of Teonex® with good heat resistance and mechanical properties.

#### ■ Typical Applications

Insulation, Speaker, MTS, Processing film, PV cell

#### ■ Pretreatment

none

#### ■ Technical Data

Item	Unit	Q51 Type							Test method	
Thickness	μm	12	16	25	38	50	75	100	JIS C2151	
Tensile strength	MD	MPa	310	310	310	270	270	270	270	JIS C2318
	TD		310	310	310	270	270	270	270	
Tensile elongation	MD	%	85	85	85	90	90	90	100	JIS C2318
	TD		85	85	85	90	90	90	100	
Thermal Shrinkage (150 deg C × 30 mins.)	MD	%	1.0	1.0	0.8	0.6	0.6	0.4	0.4	JIS C2318
	TD		0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Thermal Shrinkage (200 deg C × 10 mins.)	MD	%	2.6	2.6	2.5	1.3	1.3	1.0	1.0	JIS C2318
	TD		3.5	3.0	3.0	1.3	1.2	1.0	1.0	
Breakdown voltage	kV/mm		–	–	300	250	250	200	180	JIS C2318
Coefficient of friction	μs	–	0.4	0.4	0.4	0.4	0.4	0.4	0.4	JIS C7175
	μk		0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Haze	%		8.0	10.0	13.0	14.0	15.0	25.0	28.0	JIS K7136

1.The information contained herein is believed to be reliable and correct.

2.Please refer to the MSDS for product safety data.

3.Information is presented without guarantee or warranty.

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#### ■ Pretreatment

none

#### ■ Technical Data

Item	Unit	Q51 Type			Test method	
Thickness	μm	125	188	250	JIS C2151	
Tensile strength	MD	MPa	250	250	210	JIS C2318
	TD		250	250		
Tensile elongation	MD	%	100	110	120	JIS C2318
	TD		100	110		
Thermal Shrinkage (150 deg C × 30 mins.)	MD	%	0.4	0.4	0.4	JIS C2318
	TD		0.1	0.1		
Thermal Shrinkage (200 deg C × 10 mins.)	MD	%	0.8	0.8	0.8	JIS C2318
	TD		0.8	0.7		
Breakdown voltage	kV/mm	150	–	–	JIS C2318	
Coefficient of friction	μs	–	0.4	0.4	0.4	JIS C7175
	μk		0.3	0.3		
Haze	%	29.0	36.0	43.0	JIS K7136	

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