



Filmore GT11 (IN Side : Corona Treatment, OUT Side : No Treatment) / GT12 (IN Side : Corona Treatment, OUT Side : Corona Treatment) / GT13 (IN Side : No Treatment, OUT Side : Corona Treatment) is biaxially oriented Nylon 6 film which is made by tenter type of production line. This film is widely used in flexible packaging application with excellent barrier and mechanical strength.

Property		Value						Unit	Test Method	
General Property		10	12	15	20	25	30			
Thickness		10 ± 0.5	12 ± 0.6	15 ± 0.75	20 ± 1.0	25 ± 1.25	30 ± 1.5	μm	Hyosung Method	
Yield		86.2	71.8	57.5	43.1	34.5	28.7	m <sup>2</sup> /kg	Calculated	
Thermal Property										
Heat Shrinkage (dry air)	MD	1.5 ± 0.5	1.5 ± 0.5	1.5 ± 0.5	1.0 ± 0.5	1.0 ± 0.5	1.0 ± 0.5	%	Hyosung Method (160°C × 10 min)	
	TD	0.5 ± 0.5	0.5 ± 0.5	0.5 ± 0.5	0.2 ± 0.5	0.2 ± 0.5	0.0 ± 0.5	%		
Heat Shrinkage (water)	MD	2.3 ± 1.0	2.3 ± 1.0	2.3 ± 1.0	2.0 ± 1.0	2.0 ± 1.0	2.0 ± 1.0	%	Hyosung Method (95°C × 30 min)	
	TD	2.3 ± 1.0	2.3 ± 1.0	2.3 ± 1.0	2.0 ± 1.0	2.0 ± 1.0	2.0 ± 1.0	%		
Mechanical Property										
Tensile Strength	MD	25 ± 5	25 ± 5	25 ± 5	25 ± 5	25 ± 5	25 ± 5	kgf/mm <sup>2</sup>	ASTM D882	
	TD	35 ± 5	35 ± 5	35 ± 5	35 ± 5	35 ± 5	35 ± 5	kgf/mm <sup>2</sup>		
Elongation at Break	MD	140 ± 15	145 ± 15	150 ± 15	155 ± 15	155 ± 15	160 ± 15	%		
	TD	85 ± 15	90 ± 15	90 ± 15	100 ± 15	100 ± 15	105 ± 15	%		
F-5 Value	MD	6.5 ± 1.0	7.0 ± 1.0	7.0 ± 1.0	7.0 ± 1.0	7.0 ± 1.0	5.5 ± 1.0	kgf/mm <sup>2</sup>		
	TD	4.5 ± 1.0	5.0 ± 1.0	5.0 ± 1.0	5.0 ± 1.0	5.0 ± 1.0	4.5 ± 1.0	kgf/mm <sup>2</sup>		
Surface Property										
COF (OUT/OUT, IN/IN)	GT11/GT13	μs	0.50 ± 0.15	0.45 ± 0.15	0.40 ± 0.15	0.30 ± 0.10	0.30 ± 0.10	0.30 ± 0.15	-	ASTM D1894
		μk	0.40 ± 0.15	0.35 ± 0.15	0.30 ± 0.15	0.20 ± 0.10	0.20 ± 0.10	0.20 ± 0.15	-	
COF (IN/OUT)	GT12	μs	1.10 ± 0.20	1.05 ± 0.15	1.00 ± 0.15	0.90 ± 0.15	0.85 ± 0.15	0.85 ± 0.15	-	
		μk	0.95 ± 0.20	0.90 ± 0.15	0.85 ± 0.15	0.75 ± 0.15	0.70 ± 0.15	0.70 ± 0.15	-	
Surface Tension	treated	53 ± 2	53 ± 2	53 ± 2	53 ± 2	53 ± 2	53 ± 2	dynes/cm	ASTM D2578	
Optical Property										
Haze		2.6 ± 0.4	2.8 ± 0.4	3.0 ± 0.4	3.0 ± 0.4	3.0 ± 0.4	3.5 ± 0.4	%	ASTM D1003	
Transmittance		92.0 ± 0.5	92.0 ± 0.5	92.0 ± 0.5	92.0 ± 0.5	92.0 ± 0.5	92.0 ± 0.5	%	ASTM D1003	
Gloss at 20°		180 ± 15	180 ± 15	180 ± 15	185 ± 15	195 ± 15	195 ± 15	%	ASTM D523	

**NOTICE:** Above properties are current, typical data of our products. All statements, information and data given herein are believed to be accurate and reliable, but are present without guarantee, warranty or responsibility of any kind, expressed or implied. Some of properties would be changed in order to improve quality and productivity.