

Warranty

Hanwha L&C Exterior foil which has below's technical characteristic (Appendix #1) is guaraanted to discoloration for notified period.

1. Target Area : Eastern / Central Europe
- Austria, Belarus, Belgium, Czech Rep, Denmark, Hungary, Liechtenstein, Eire, Estonia, Finland, France, Hungary, Germany, Iceland, Latvia, Liechtenstein, Luxembourg, Netherlands, Norway, Poland, Switzerland, Romania, European Russia, UK, Ukraine, Slovakia, Sweden
2. Warranty Period : 5 years
3. Discoloration Range : Above grey scale 3 grade

※ Appendix #1

NO.	ITEM		SPEC.	REMARK
1	Appearance	Defect Type	○ At a distance of 60cm, by the naked eyes under the proper light, shall observe the defects such as visible dots, dents, pimples, line, dirt infusion, and gloss irregularity.	
2	Product		○ Multi-layered film with acrylic top layer and PVC base-film. ○ Acrylic top layer has strong weathering resistance against UV ray ○ Special PVC base film & printing pigment improve HBU & stability	RAL-GZ 716
3	Weatherability		○ Meets the demands of RAL-GZ 716 Part II -a-3 ○ A Total Irradiation of above 20GJ with Grade 3 on the grey scale (DIN EN 20105-A03,DIN EN 20105-A02)	EN513 Method 1
4	Thickness		○ Nominal -0.0 ~ +5.0mm	DIN EN ISO 2286-1
5	Width		○ Total Thickness : 200±20 μ m (Acrylic Top Layer : above 50 μ m)	DIN EN ISO 2286-3
6	Tensile strength	length-way	○ Above 15N/mm ²	DIN EN ISO 527-3
		width-way		
7	Shrinkage		○ Within ±1.0%(60℃, 10min)	DIN 53377
8	Emboss Stability		○ Gloss Change rate is Under 10% after Shrinkage Test ○ Extruding and wrapping is possible without any change of properties in the proper process conditions	DIN 53377
9	Unit Mass		○ 200±20g/ m ²	DIN EN ISO 2286-2
10	Heat Build Up		○ Above class 3 according to standard climate 23/50	DIN EN ISO 291:2008-08
11	Surface Gloss		○ Standard±2.5(60° Gloss) ※ It may be different for each pattern.	DIN 67530
12	Scratch Resistance		○ Above HB(Load 200g, 45°); (Pencil Strength : B<HB<F<H)	ASTM D 3363
13	Chemical Resistance		○ Not resistant to organic solvents, including paint-thinners and varnish-removers	
14	Maintenance		○ Appropriate cleaning with standard household cleaning agents	