

LonghuaPC-813/813F/815 FILM

Description:

LonghuaPC-813/813F/815 graphic films/sheets are available in a variety of texture combinations to achieve different optical effects and printing results. It is specifically designed for labels of LED devices. Produced to strict QC system, the product is suitable for various applications including labels, automotive dials etc.

UL File Number: E254551

Grades	Color	Textures	Thicknesses(mm)	Widths(mm)
LonghuaPC-813	Natural	Polished/Matte	0.125 ~ 0.500 (0.005" ~ 0.020")	930 or 1230 (3' or 4') converting available
LonghuaPC-813F		Polished/Fine matte	0.175 ~ 1.500 (0.007" ~ 0.060")	
LonghuaPC-815		Polished/Velvet		

Package Details

Roll Package Details

Thicknesses (mm)	Weight Per Roll (kg)	Pounds (LB)	Area Per Pound (mm)W × L	Roll Length (m)	Area Per Pound (M ² /LB)
0.125 (0.005")	89.3	197	930 × 3172	640	3.04
0.175 (0.007")	89.3	197	930 × 2320	457	2.16
0.25 (0.010")	89.3	197	930 × 1634	322	1.52
0.38 (0.015")	89.3	197	930 × 1066	210	0.99
0.5 (0.020")	89.3	197	930 × 812	160	0.76

Note: The standard products are supplied without premasks, but could mask on polish side when required.

Typical Property Values

Properties		Test Methods	Units	Values
PHYSICAL				
Specific Gravity		ASTM D792	g/cm³	1.2
Light Transmission		ASTM D1003	%	>89
Yellowness Index		ASTM D1925	—	<1.0
Water Absorption Equilibrium, 24 HRS		ASTM D570	%	0.35
MECHANICAL				
Tensile Strength		ASTM D882	psi	8,500
			MPa	55
Elongation at break		ASTM D882	%	> 90
Impact strength @ 10mils		JIS–K6745	In–lbs	120
Tear Strength Propagation		ASTM D1922	g/mil	30
Folding times(MIT)	@ 0.25mm	ASTM D2176–69	double folds	60
	@ 0.5mm	ASTM D2176–69	double folds	20
THERMAL				
Vicat Softening Temperature		ASTM D1525–00 Modified B	°C	160
		ISO 306	°C	149
Heat Deflection Temp		ISO 75 Modified	°C	142
Heat shrinkage @ 135°C		ASTM D1204	%	<0.2
ELECTRICAL				
Dielectric Strength (@ 10mils)		ASTM D149	V/mil	1,700
Volume Resistivity@25°C,50%RH		ASTM D257	Ohm–cm	10 ¹⁶
Surface Resistivity@25°C,50%RH		ASTM D257	Ω/□	10 ¹⁵
FLAMMABILITY				
UL Flammability				
@ ≥0.5mm(non–halo & REACH conformable)		UL BULLETIN 94	UL94	V–2
@ < 0.5mm(non–halo & REACH conformable)				HB
0.25mm≤ @ < 0.5mm(brominated and REACH conformable)				V–2
@ < 0.25mm(brominated and REACH conformable)				VTM–2

Note:VTM-2 or V-2 products customized upon orders.

PROPERTIES	UNITS	LIMITS
Gauge Variation	%	< 0.250mm ± 10% ≥0.250mm ± 5%

Note: The above figures are typical values obtained under standard methods and should not be construed as guaranteed data under unsteady application conditions. Although any information or recommendation contained herein is given in good faith, seller makes no warranty or guarantee, express or implied: 1) that the results described herein will be obtained under end-use conditions, or 2) as to the effectiveness or safety of any design incorporating seller's products, services or recommendations. Except as provided in seller's standard conditions of sale, seller shall not be responsible for any loss resulting from any use of its products or services described herein. Each user is responsible for making its own determination as to the suitability of seller's products, services or recommendations for the user's particular use through appropriate end-use testing and analysis.