

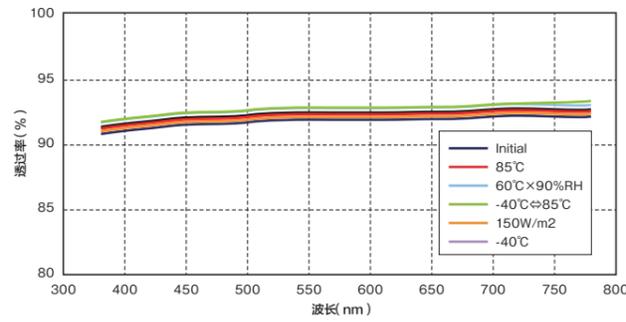
通过光学贴合实现极佳的视觉效果

有机硅OCA (*Optical Clear Adhesive)

■ 经过耐环境测试后的透过率(1000小时的测试结果)

测量波长	初始	高温放置	高温高湿	热循环	耐光性	低温放置
		85°C	60°C×90%RH	-40°C⇄85°C	150W/m2	-40°C
400nm	91	91	91	91	91	91
800nm	91	91	91	91	91	91

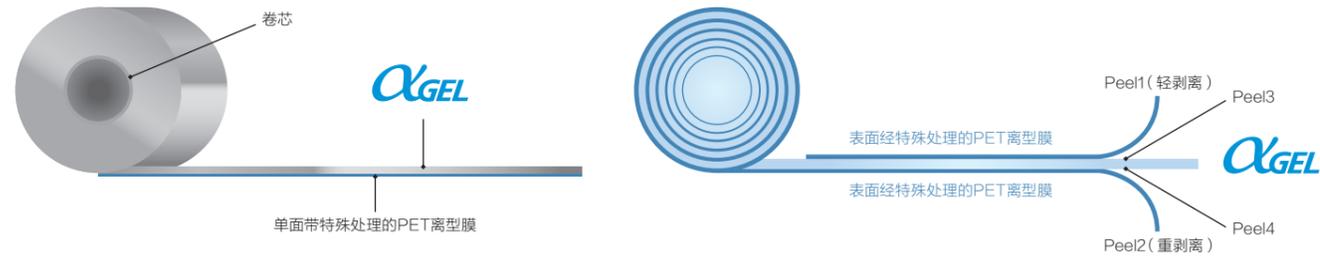
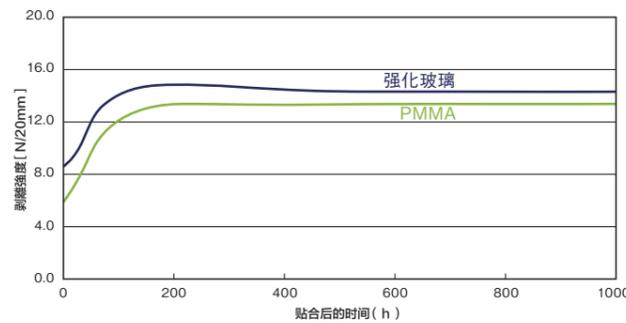
单位: %



■ 剥离强度 (Peel3)

贴合后的时间 (h)	PMMA	强化玻璃
0	6.2	8.8
120	12.8	14.6
500	13.4	14.4
1000	13.4	14.4

单位: N/20mm



品名	厚度 (mm)	宽幅 (mm)		长度 (M)	卷芯 (inch)	离型膜	对离型膜粘接强度 (N/20mm)	
		薄膜宽幅	有效宽幅				Peel1 (轻剥离)	Peel2 (重剥离)
K120E(-D)	t0.175/t0.2/t0.25/t0.3/t0.5	500	460	50	3/6	带单面离型膜	0.05	0.7
K120E(-D)	t0.8/t1.0	500	440	25	3/6	带单面离型膜	0.05	0.7
K95E(-D)	t1.2/t1.5/t1.8	500	400	25	3/6	带单面离型膜	0.03	0.5

Notes

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FEATURE.1
优异的耐候性
Weatherbility

FEATURE.2
独特的粘弹性性能
Viscoelasticity

FEATURE.3
优异的柔软性
Flexibility

FEATURE.4
优异的气体穿透率
Gas Permeability

FEATURE.5
独特的折射率
Refractive Index

FEATURE.1

优异的耐候性 - 在严苛环境下依然维持高透明特性 -

Weatherability

具有十分优异的耐候性的硅胶,不易因热量和紫外线等引起变色(黄变),且不易受温度变化影响,因此能在广泛的温度范围内发挥稳定的性能,即使在严酷的环境下也能保持长期的稳定性。

[带来的效果]



稳定性(高低温)



耐黄变性



※户外广告显示屏



※此图片显示的是环境试验后发生黄变的例子

FEATURE.2

独特的粘弹性性能 - 从低温到高温能保持稳定的粘弹性性能 -

Viscoelasticity

几乎不受温度影响,在-40℃至200℃的广泛温度范围内都能稳定地发挥性能。此外,在特定频率带具有较高的振动传递特性,所以可应用于多个领域。

[带来的效果]



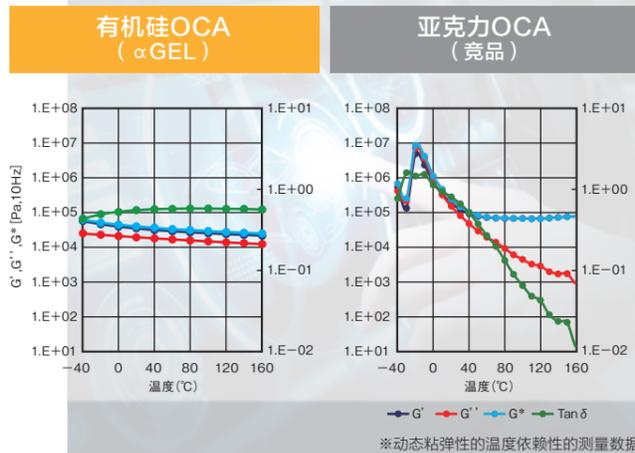
稳定性(高低温)



良好的触控反馈特性



※车载触控反馈显示屏



FEATURE.3

优异的柔软性 - 同时兼备优异的冲击吸收性和应力缓和性能 -

Flexibility

优秀的柔软性能能够抑制显示器的显示MURA、提高耐久性。另外,在塑料材料的环境试验中,能够缓解由线膨胀差导致的应力,并减少面板的翘起。

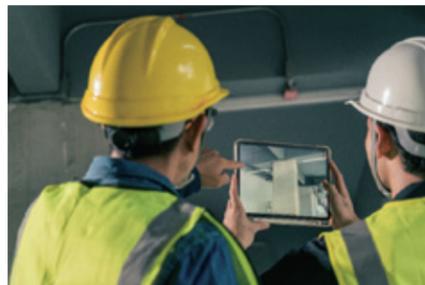
[带来的效果]



抗冲击



缓解应力



※工业用平板电脑



※此图片显示的是环境测试后显示MURA的样子。

FEATURE.4

优异的气体穿透率 - 减少由外气产生的气泡 -

Gas Permeability

具有优异的气体穿透性能,可以释放塑料材料产生的气体,从而降低产生气泡的可能性。

[带来的效果]



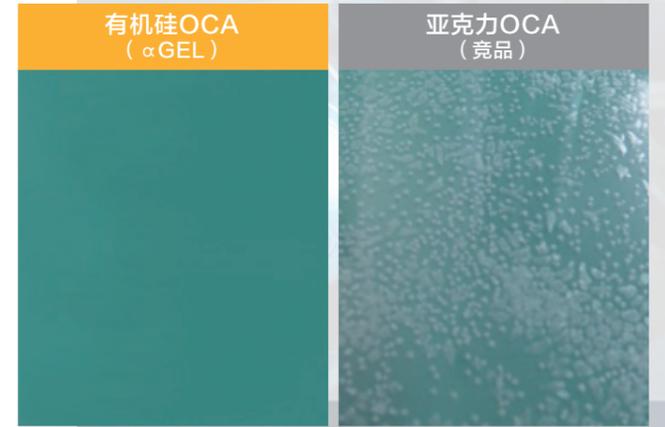
优异的气体穿透率



抑制气泡生成



※曲面·3D显示屏



※此图片显示的是环境测试后的气泡形态(聚乙烯/OCA/聚乙烯,95℃×12小时)。

FEATURE.5

独特的折射率 - 通过光的扩散,可提高亮度 -

Refractive Index

通过减少显示器表面的光线折射,可以减少因角度而产生的光线反射和图像扭曲。特别是在反射型显示器中,通过光线的扩散,可以提高显示器整体的光线反射效果,实现亮度的提升。

[带来的效果]



折射指数1.41



光扩散



※电子墨水屏



※此图片显示的是反射式显示屏在户外观察的效果。

[物性表]

大项	小项	测试仪器	条件①	条件②	单位	K120E(-D)	K95E(-D)	测试标准
机械性能	硬度	针入度测量仪	杯子: 40ml	-	1/10mm	120	95	JIS K 2207
	杨氏模量	电子万能试验机	φ30mm×t12.7mm	1mm/min(压缩)	kPa	22	48	压缩弹性率
	拉伸破坏变形	电子万能试验机	K120E: t1.0mm K95E: t1.8mm	200mm/min	%	1265	1050	JIS K 6815-1
光学性能	粘弹性Tan δ	粘弹性测试仪	φ25mm×t1.8mm @10Hz	20℃ 100℃	-	0.54 0.56	0.45 0.45	-
	全光线透射率	雾度计	K120E: t0.5mm K95E: t1.8mm	常温	%	92.7	92.5	JIS K 7136
				95℃×1000h	%	92.5	91.5	
				85℃_85%×1000h	%	92.4	92.2	
	光谱透射率	光谱仪	K120E: t0.5mm K95E: t1.8mm	380nm	%	91	91	JIS K 7105
				780nm	%	91	91	
	黄变b*	光谱仪	K120E: t0.5mm K95E: t1.8mm	常温	-	0.14	0.20	JIS K 7105
95℃×1000h				-	0.39	0.86		
雾度	雾值计	K120E: t0.5mm K95E: t1.8mm	85℃_85%×1000h	-	0.27	0.36	JIS K 7136	
			常温	%	0.24	0.42		
折射率	阿贝折射仪	25×25×t0.5mm	95℃×1000h	%	0.33	0.61	JIS K 7136	
			85℃_85%×1000h	%	0.31	0.60		
其他	密度	电子密度计	23℃/589nm	-	1.41	1.41	JIS K 7142	
			φ30mm×t12.7mm	-	0.98	0.98	-	