

The materials used on LED ITALY products have been subjected to the following tests:

Type of resins	Type of resins IK10	Type of support	
Transparent (VT 3402 KK NV) Opale (PU 1305 Opal 0.15%)	Transparent (VT 3402 KK NV) Opal (PU 1308 Opal 0.15%)	Stainless steel PVC	
TEST	.NORM	EXECUTION	RESULT
<b>Brilliance Gloss at 60°</b>	UNI EN ISO 2813	Gloss value at 60°	<b>Compliant</b>
<b>Neutral salt spray</b>	ISO 7253	Exposition 1500 h, purity degree of salt 99,5% NaCl in solution with demineralized water; Electric conductivity < 20 µS/cm, concentration of test solution 50 ± 5 g/l	Checked cracking, blistering or water absorption. <b>Compliant</b>
<b>Humidity chamber</b>	UNI EN ISO 6270	Exposition 1500 h, at 50°C RH>95% in constant saturated atmosphere	No cracks, blistering, softening of the resin layer, no gloss variation or water adsorption. <b>Compliant</b>
Resistance to immersion in the following liquids:			
<b>Swimming pool</b>	N.A.	5 ppm sodium hypochlorite, derived from the hydrolysis of the pool disinfectant (sodium dichloroisocyanurate 56%) approx. pH 7 (obtained with sodium bisulphate hydrolysed in sulfuric acid)	No softening, colour change or deformation of the resin film. <b>Compliant</b>
<b>Water</b>	ISO 2812 - part 1 method 1	Exposition 250 h at 25°C	Resin layer unaffected, no changement or softening. <b>Compliant</b>
<b>Hydrochloric Acid</b>	ISO 2812 - part 1 method 2	Exposition 240 h - sol. 8.5% at 20°C	Resin layer unaffected, no absorption, changement or softening. <b>Compliant</b>
<b>Sodium hydroxide</b>	ISO 2812 - part 1 method 2	Exposition 240 h - sol. 20% at 20°C	Resin layer unaffected, no absorption, changement or softening. <b>Compliant</b>
<b>Isopropyl alcohol</b>	ISO 2812	Exposition 48 h at 20°C	Film slightly modified, no softening, mass alteration [-5-6%]
<b>Stone chipping</b>	ASTM D 3170	Resistance to stone and gravel chipping. ASTM D 3170: ≤7B	<b>Compliant</b>
<b>QUV test</b>	ISO 16474	Exposition 1000h - ΔE check	<b>Compliant</b>
<b>Heat Resistance</b>	MS CG-12	Exposition 500 h at 80°C	Resin layer unaffected, no deformation, colour changement or softening. <b>Compliant</b>
<b>Resistance to high temperatures</b>	GM 6073	Exposition 1 h at 93°C	Resin layer unaffected no deformation, color changement or softening. <b>Compliant</b>

The materials used on LED ITALY products with hard resin have been subjected to the following tests:

<b>IK10 Test</b>	IEC 62 262	Impactor regulated 20 joules of energy. Radius 1.97", 11.02lbs of mass, height of drop 15.75"	No breaks. <b>Compliant</b>
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