

Pelnox®

Product Name	ME-522-1C/HV-522
Product Category	Casting Resin for LED
Usage	LED
Function	

As supplied

(Typical Value)

Item	Condition	Unit	ME-522-1C	HV-522
Appearance	visual	–	Light blue liquid	Light yellow liquid
Specific Gravity	25℃	–	1.17	1.17
Viscosity	25℃	mPa·s	3,500	130
Mixing Ratio	parts by weight		100/110	
Gel Time	120℃ 8g	minute	10	
Mixed Viscosity	25℃	mPa·s	650	

Standard Curing Conditn 100℃ x 2 hours + 130℃ x 2 hours

As cured

Item	Condition	Unit	Typical Value
Hardness	JIS K-7215 25℃	Shore D	89
Heat Distortion Temperture	JIS K-7191-3	℃	142
Glass Transition Temperature	TMA	℃	142
	DSC	℃	143
Coefficient of Thermal Expansion	below Tg	10 ⁻⁵ /℃	6.4
	above Tg	10 ⁻⁵ /℃	18.3
Flexural Strength	JIS K-6911	MPa	90
Flexural Modulus	JIS K-6911	MPa	2,800
Volume Resistivity	JIS K 6911 25℃	Ω-cm	>10 ¹⁶
	JIS K 6911 boil for 2hrs	Ω-cm	>10 ¹⁶
Water Absorption	JIS K 6911 boil for 2 hrs	wt%	0.5

The above values are typical and not specification.



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