

Pelnox®

Product Name	ME-512-1B/HV-512
Product Category	Casting Resin for LED
Usage	LED
Function	Low Stress

As supplied

(Typical Value)

Item	Condition	Unit	ME-512-1B	HV-512
Appearance	visual	—	Light blue liquid	Light yellow liquid
Specific Gravity	25℃	—	1.17	1.17
Viscosity	25℃	mPa·s	4,000	100
Mixing Ratio	parts by weight		100/100	
Gel Time	120℃ 7g	minute	14	
Mixed Viscosity	25℃	mPa·s	500	

Standard Curing Condition 120℃ x 6 hours

As cured

Item	Condition	Unit	Typical Value
Hardness	JIS K-7215 25℃	Shore D	89
Heat Distortion Temperature	JIS K-7191-3	℃	145
Glass Transition Temperature	TMA	℃	140
	DSC	℃	144
Coefficient of Thermal Expansion	below Tg	10 ⁻⁵ /℃	6.3
	above Tg	10 ⁻⁵ /℃	17
Flexural Strength	JIS K-6911	MPa	90
Flexural Modulus	JIS K-6911	MPa	2,700
Shear Adhesive Strength	JIS K-6850 Fe-Fe	MPa	24
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 2hrs	wt%	0.4

The above values are typical and not specification.



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