

Pelnox®

Product Name	ME-540CLEAR/HV-540
Product Category	Casting Resin for LED
Usage	LED
Function	Low Stress, Heat Cycle Resistant

As supplied

(Typical Value)

Item	Condition	Unit	ME-540 CLEAR	HV-540
Appearance	visual	–	Light blue viscous liquid	Light yellow clear liquid
Specific Gravity	25°C	–	1.17	1.12
Viscosity	25°C	mPa·s	11,000	2,000
Mixing Ratio	parts by weight		100/60	
Gel Time	150°C 7g	minute	120	
Mixed Viscosity	25°C	mPa·s	5,000	

Standard Curing Condition 150°C x 16 hours

As cured

Item	Condition	Unit	Typical Value
Hardness	JIS K-7215 25°C	ショアD	85
Heat Distortion Temperature	JIS K-7191-3	°C	55
Glass Transition Temperature	TMA	°C	45
Coefficient of Thermal Expansion	below Tg	10 ⁻⁵ /°C	6
	above Tg	10 ⁻⁵ /°C	18
Flexural Strength	JIS K-6911	MPa	90
Flexural Modulus	JIS K-6911	MPa	2,300
Volume Resistivity	JIS K 6911 25°C	Ω-cm	>10 ¹⁵
Water Absorption	JIS K 6911 boil for 2 hrs	wt%	1.5

The above values are typical and not specification.



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