

Pelnox®

Product Name	ME-5000
Product Category	Resin for LED
Usage	L E D (Insulation type Die Attach)
Function	One Component Type

As supplied (Typical Value)

Item	Condition	Unit	ME - 5000
Appearance	visual	–	White paste
Specific Gravity	25°C	–	1.20
Viscosity	25°C	mPa·s	22,000
Gel Time	170°C	minute	about 4

Standard Curing Condition **170°C x 1 hour**

As cured

Item	Condition	Unit	Typical Value
Hardness	JIS K-7215 25°C	Shore D	85
Heat Distortion Temperature	JIS K-7191-3	°C	145
Glass Transition Temperature	TMA	°C	130
Coefficient of Thermal Expansion	below Tg	10 ⁻⁵ /°C	8
	above Tg	10 ⁻⁵ /°C	14.5
Flexural Strength	JIS K-6911	MPa	100
Flexural Modulus	JIS K-6911	MPa	2,600
Volume Resistivity	JIS K 6911 25°C	Ω-cm	>2 x 10 ¹⁵
Water Absorption	JIS K 6911 boil for 1hour	wt%	0.8
	JIS K 6911 boil for 2 hours		1.3
Weight Loss during cure	TG/DTA 170°C - 20mg scale	wt%	6
Curing Shrinkage	JIS K-6901 25g scale	%	1.7

The above values are typical and not specification



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