

## Pelnox®

<b>Product Name</b>	ME-268 TYPE D/HV-110 TYPE D
<b>Product Category</b>	Potting Resin for Seiconductors, Environmentally Friendly Resin
<b>Usage</b>	Semiconductor Modules, Car Electro Devices, Film Capacitors
<b>Function</b>	Heat Resistant, Flame Resistant, Heat Cycle Resistant

### As supplied

(Typical Value)

Item	Condition	Unit	ME-268 TYPE D	HV-110 TYPE D
<b>Appearance</b>		–	Black viscous liquid	White viscous liquid
<b>Specific Gravity</b>	25°C	–	1.85	1.78
<b>Viscosity</b>	25°C	mPa·s	39,000	6,000
<b>Mixing Ratio</b>	parts by weight		100/100	
<b>Pot Life</b>	25°C, time up to double viscosity	hour	8	
<b>Gel Time</b>	100-140°C 40g	minute	40-10	
<b>Mixed Viscosity</b>	25°C	mPa·s	16,000	

**Standard Curing Condition 140°C x 2 hours**

### As cured

Item	Condition	Unit	Typical Value
<b>Specific Gravity</b>	Buoyancy method 25°C		1.85
<b>Hardness</b>	JIS K-7215 25°C	Shore D	92
<b>Heat Distortion Temperature</b>	JIS K-7191-3	°C	167
<b>Glass Transition Temperature</b>	TMA	°C	154
<b>Coefficient of Thermal Expansion</b>	below Tg	10 <sup>-5</sup> /°C	2
	above Tg	10 <sup>-5</sup> /°C	5.4
<b>Flexural Strength</b>	JIS K-6911	MPa	125
<b>Flexural Modulus</b>	JIS K-6911	MPa	12,000
<b>Volume Resistivity</b>	JIS K 6911 25°C	Ω-cm	2.5 x 10 <sup>16</sup>
	JIS K 6911 boil for 2hrs	Ω-cm	7.0 x 10 <sup>15</sup>
<b>Water Absorption</b>	JIS K 6911 boil for 2hrs	wt%	0.14
<b>Impurty Ion</b>	Crushing (100mesh pass)	ppm	Na:2
	PCT(121°C/2atm) after 48hrs		Cl:4
<b>Flame Resistance</b>	UL-94		V-0 recognized

The above values are typical and not specification.



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