

# Pelnox®

<b>Product Name</b>	<b>ME-105/HY-680</b>
<b>Product Category</b>	Resin for Car Electro Devices & Sensors, Seal for Thermostat & Relay
<b>Usage</b>	General Modules, Sensors, Relays
<b>Function</b>	Heat Resistant

## As supplied

(Typical Value)

Item	Condition	Unit	ME-105	HY-680
<b>Appearance</b>	visual	–	Clear, Black	Light yellow clear
<b>Specific Gravity</b>	25°C	–	1.15	0.95
<b>Viscosity</b>	25°C	mPa·s	4,000	90
<b>Mixing Ratio</b>	parts by weight		100/33	
<b>Pot Life</b>	25°C	hour	5	

**Standard Curing Condition 100°C x 2 hours**

## As cured

Item	Condition	Unit	Typical Value
<b>Hardness</b>	JIS K-7215 25°C	Shore D	85
<b>Heat Distortion Temperature</b>	JIS K-7191-3	°C	100
<b>Glass Transition Temperature</b>	TMA	°C	105
<b>C.T.E. *1</b>	below Tg	10 <sup>-5</sup> /°C	7.6
<b>Flexural Strength</b>	JIS K-7171	MPa	130
<b>Flexural Modulus</b>	JIS K-7171	MPa	2,500
<b>Volume Resistivity</b>	JIS K 6911 25°C	Ω-cm	>10 <sup>14</sup>
<b>Water Absorption</b>	JIS K 6911 boil for 2hrs	wt%	0.62
<b>Dielectric Constant</b>	JIS K 6911 1MHz		4.3
<b>Heat Distortion Temperature</b>	JIS K 6911 1MHz	%	2.9
<b>Breakdown Voltage</b>	JIS K 6911 25°C	kv/mm	24

\*1: Coefficient of Thermal Expansion

The above values are typical and not specification.



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