

# Pelnox®

<b>Product Name</b>	XM-5896 T
<b>Product Category</b>	One Component Type Resin, Sealing for Thermostat & Relay
<b>Usage</b>	Thermal Fuses
<b>Function</b>	One Component

## As supplied

(Typical Value)

Item	Condition	Unit	XM-5896 T
<b>Appearance</b>	visual	–	Black viscous liquid
<b>Specific Gravity</b>	25°C	–	1.2
<b>Viscosity</b>	25°C	mPa·s	40,000
<b>TI Value</b>	25°C	–	1.6
<b>Gel Time</b>	100°C 5g	minute	about 7 minutes

**Standard Curing Condition 100°C x 1 hr**

## As cured

Item	Condition	Unit	Typical Value
<b>Hardness</b>	JIS K 7215 25°C	Shore D	84
<b>Heat Distortion Temperature</b>	JIS K 7191-3	°C	115
<b>Glass Transition Temperature</b>	TMA	°C	110
<b>Coefficient of Thermal Expansion</b>	below Tg	10 <sup>-5</sup> /°C	5.6
	above Tg	10 <sup>-5</sup> /°C	14.7
<b>Flexural Strength</b>	JIS K 6911 25°C	MPa	70
<b>Flexural Modulus</b>	JIS K 6911 25°C	MPa	2,800
<b>Shear Adhesive Strength</b>	JIS K 6850 Fe-Fe	MPa	21
	JIS K 6850 PBT-PBT	MPa	3.1
<b>Volume Resistivity</b>	JIS K 6911 25°C	Ω-cm	6.1 x 10 <sup>16</sup>
	JIS K 6911 boil for 2hrs	Ω-cm	1.2 x 10 <sup>16</sup>
	JIS K 6911 boil for 24hrs	Ω-cm	1.7 x 10 <sup>13</sup>
<b>Water Absorption</b>	JIS K 6911 boil for 2hrs	wt%	0.8
	JIS K 6911 boil for 24hrs	wt%	3.2

The above values are typical and not specification



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