

Pelnox®

Product Name	XM-5866
Product Category	One Component Type Resin
Usage	Sensors, Relays
Function	One Component Type, UL-94 V-0

As supplied

(Typical Value)

Item	Condition	Unit	XM-5866
Appearance	visual	—	Black liquid
Specific Gravity	25°C	—	1.47
Viscosity	25°C	mPa·s	9,200
Gel Time	100°C	minute	40
Shelf Life	25°C		2 months

Standard Curing Condition 100°C x 2 hours

As cured

Item	Condition	Unit	Typical Value
Hardness	JIS K-7215 25°C	Shore D	85
Glass Transition Temperature	TMA	°C	140
Coefficient of Thermal Expansion	below Tg	10 ⁻⁵ /°C	4.6
Flexural Strength	JIS K-6911	MPa	89
Flexural Modulus	JIS K-6911	MPa	4,100
Volume Resistivity	JIS K 6911 25°C	Ω-cm	1.5 x 10 ¹⁵
	JIS K 6911 boil for 2hrs	Ω-cm	7.3 x 10 ¹⁴
Water Absorption	JIS K 6911 boil for 1 hr	wt%	0.8
Dielectric Constant	JIS K-6911 1KHz		4.5
Dielectric Loss Tangent	JIS K-6911 1KHz		0.01

The above values are typical and not specification.



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