

Pelnox®

Product Name	XM-5866 TYPE E3
Product Category	One Component Type Resin
Usage	Sensors, Rerays
Function	One Component Type, High Thermal Conductivity

As supplied

(Typical Value)

Item	Condition	Unit	XM-5866 Type E
Appearance	visual	—	Black viscous liquid
Specific Gravity	25°C	—	2.22
Viscosity	25°C	mPa·s	106,000
Gel Time	100°C, 10g scale	minute	about 35minutes

Standard Curing Condition 100°C x 2 hours

As cured

Item	Condition	Unit	Typical Value
Hardness	JIS K-7215 25°C	Shore D	95
Heat Distortion Temperature	JIS K-7191-3	°C	127
Glass Transition Temperature	TMA	°C	110
Coefficient of Thermal Expansion	below Tg	10 ⁻⁵ /°C	3.0
	above Tg	10 ⁻⁵ /°C	10.2
Flexural Strength	JIS K-6911, thickness: 3mm	MPa	80
Flexural Modulus	JIS K-6911, thickness: 3mm	MPa	120,000
Volume Resistivity	JIS K 6911 25°C	Ω-cm	0.7 x 10 ¹⁶
	JIS K 6911 boil for 2 hours	Ω-cm	1.0 x 10 ¹⁴
Water Absorption	JIS K 6911 boil for 2 hours	wt%	0.3
Thermal Conductivity	rapid thermal conductivity meter	W/mk	1.6

The above values are typical and not specification.



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