

Pelnox®

Product Name	XM-2109/XY-2110
Product Category	Resin for Car Electro Devices & Sensors
Usage	General Modules
Function	Flexible, Low Stress, Flame Resistant

As supplied

(Typical Value)

Item	Condition	Unit	XM-2109	XY-2110
Appearance	visual	–	Black viscous liquid	Light brown liquid
Specific Gravity	25°C	–	1.67	0.97
Viscosity	25°C	mPa·s	56,000	130
Mixing Ratio	parts by weight		100/20	
Gel Time	80°C	minute	80	
Mixed Viscosity	25°C	mPa.s	3,000	

Standard Curing Condition 80°C x 3 hours

As cured

Item	Condition	Unit	Typical Value
Hardness	JIS K-7215 25°C	Shore A	50
Specific Gravity		g/cc	1.53
Glass Transition Temperature	TMA	°C	-12
Coefficient of Thermal Expansion	below Tg	10 ⁻⁵ /°C	4.2
	above Tg	10 ⁻⁵ /°C	14.2
Tensile Strength	JIS K-6251	MPa	1.2
Tensile Modulus	JIS K-6251	MPa	0.6
Elongation at break	JIS K-6251	%	120
Expansion Rate	TMA -30°C	%	-0.7
	0°C		-0.4
	30°C		0 Reference Value
	60°C		0.4
	90°C		0.8
	120°C		1.2
	150°C	1.6	
Volume Resistivity	JIS K 6911 25°C	Ω-cm	2.3 x 10 ¹²
Flame Resistance	UL-94		V-0 recognized
Water Absorption	JIS K 6911 boil for 1hr	wt%	0.9

The above values are typical and not specification



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