

Pelnox®

Product Name	ME-372/HY-680
Product Category	Resin for Car Electro Devices & Sensors
Usage	General Modules
Function	Low Stress, Stress Release

As supplied

(Typical Value)

Item	Condition	Unit	ME-372	HY-680
Appearance	visual	—	Black liquid	Light yellow clear liquid
Specific Gravity	25°C	—	1.59	0.95
Viscosity	25°C	mPa·s	20,000	90
Mixing Ratio	parts by weight		100/20	
Mixed Viscosity	25°C	mPa.s	2,000	
Gel Time	75°C 40g	minute	38	

Standard Curing Condition 75°C x 2 hours

As cured

Item	Condition	Unit	Typical Value
Hardness	JIS K 7215 25°C	Shore D	91
Glass Transition Temperature	TMA	°C	66
Coefficient of Thermal Expansion	below Tg	10 ⁻⁵ /°C	4.5
	above Tg	10 ⁻⁵ /°C	10.9
Flexural Strength	JIS K 6911 25°C	MPa	53
Flexural Modulus	JIS K 6911 25°C	MPa	5,800
Volume Resistivity	JIS K 6911 25°C	Ω-cm	6.8 x 10 ¹⁵
Water Absorption	JIS K 6911 boil for 2hrs	wt%	0.6
Flame retardance	UL-94 2mm, 3mm		V-0
Temperature rise value by heat generation on curing	100g scale	°C	+81°C (Curing at 75°C)
Cure Shrinkage	Volume shrinkage rate	%	3.5
Thermal Conductivity		W/mk	0.60

The above values are typical and not specification



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