

Pelnox®

Product Name	ME-280/HV-140
Product Category	Resin for High Voltage Devices
Usage	High Voltage Devices, Resin Insulators
Function	Weatherability, Flame Resistant, High Tg

As supplied

(Typical Value)

Item	Condition	Unit	ME-280	HV-140
Appearance	visual	–	Brown liquid	White liquid
Specific Gravity	25°C	–	1.82	1.80
Viscosity	25°C	mPa·s	77,000	14,000
Mixing Ratio	parts by weight		100/100	
Gel Time	100°C 40g	minute	30	
Mixed Viscosity	25°C	mPa·s	34,000	

Standard Curing Condition 100°C x 1 hour + 150°C x 3 hours

As cured

Item	Condition	Unit	Typical Value
Hardness	JIS K-7215 25°C	Shore D	93
Thermal Conductivity	JIS K-7191-3	°C	178
Glass Transition Temperature	TMA	°C	173
Coefficient of Thermal Expansion	below Tg	10 ⁻⁵ /°C	2.2
	above Tg	10 ⁻⁵ /°C	7.7
Flexural Strength	JIS K-6911	MPa	49
Flexural Modulus	JIS K-6911	MPa	8,200
Tensile Strength	JIS K-7161	MPa	29
Tensile Modulus	JIS K-7161	MPa	4,400
Volume Resistivity	JIS K 6911 25°C	Ω-cm	6.6 x 10 ¹⁵
	JIS K 6911 boil for 2hrs	Ω-cm	2.0 x 10 ¹⁵
Water Absorption	JIS K 6911 boil for 2hrs	wt%	0.12
	JIS K 6911 boil for 24hrs	wt%	0.53
UL Recognition	UL746A Comparative tracking		PLC=0(>600V)
	UL746A Breakdown Voltage	kV/mm	20
	UL746A Volume Resistivity	Ω-cm	10 ¹⁵
	UL-94 3mm, 6mm		V-0 recognized

The above values are typical and not specification.



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