

Pelnox®

Product Name	WE-20/HV-19
Product Category	Undercoating for Capacitors
Usage	Film Capacitors
Function	Humidity Resistant

As supplied

(Typical Value)

Item	Condition	Unit	WE-20	HV-19
Appearance	visual	–	Semitrnsparent liquid	Light brown liquid
Specific Gravity	25°C	–	1.10	1.20
Viscosity	25°C	mPa·s	600	50
Mixing Ratio	Parts by weight		100/80	
Mixed Viscosity	25°C	mPa·s	180	
Tack Free Time	100°C	分	60	
	120°C	分	20	

Standard Curing Condition 120°C x 2 hours

As cured

Item	Condition	Unit	Typical Value
硬度	JIS K-7215 25°C	Shore D	87
Heat Distortion Temperature	JIS K-7191-3	°C	78
Glass Transition Temperature	TMA	°C	94
Coefficient of Thermal Expansion	below Tg	10 ⁻⁵ /°C	7
	above Tg	10 ⁻⁵ /°C	17
Flexural Strength		MPa	120
Flexural Modulus	JIS K-6911	MPa	2,800
Volume Resistivity	JIS K 6911 25°C	Ω-cm	1 x 10 ¹⁷
	JIS K 6911 boil for 2hrs		2 x 10 ¹⁶
	JIS K 6911 boil for 24 hrs		1 x 10 ¹⁶
	JIS K 6911 boil for 500hrs		3 x 10 ¹⁵
Water Absorption	JIS K 6911 boil for 2hrs	wt%	0.6
	JIS K 6911 boil for 24 hrs		1.5
	JIS K 6911 boil for 500hrs		2.1
Dielectric Constant	JIS K 6911 25°C 1kHz/100kHz/1MHz		3.4/3.3/3.3
Dielectric Loss Tangent	JIS K 6911 25°C 1kHz/100kHz/1MHz	%	0.5/0.8/1.1

The above values are typical and not specification



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