

Pel-Urethane®

Product Name	MU-115A/MU-115B
Product Category	Urethane Resin for Electronics
Usage	Substrate Potting
Function	Flexibile, Heat Cycle Resistant

As supplied

(Typical Value)

Item	Condition	Unit	MU-115A	MU-115B
Appearance	visual	–	Black liquid	Brown liquid
Specific Gravity	25°C	–	0.92	1.06
Viscosity	25°C	mPa·s	1,700	100
Mixing Ratio	parts by weight		100/30	
Mixed Viscosity	25°C	mPa·s	1,200	
Mixed Specific Gravity	25°C	–	0.95	
Gel Time	80°C	min	35	
Pot Life	25°C, time up to 10Pa.s	min	60	

Standard Curing Condition : 80°C – 2 hours

As cured

Item	Condition	Unit	Typical Value		
Hardness	JIS K-7312 25°C Shore A		4		
	25°C Arsker C2		25		
Glass Transition Temp.	TMA	°C	-50		
Coefficient of Thermal Expansion	below Tg	/°C	7.8 x 10 ⁻⁵		
	above Tg	/°C	4.63 x 10 ⁻⁴		
Tensile Strength	JIS K-7312 25°C	MPa	0.45		
Elongation at break	JIS K-7312 25°C	%	250		
Young's Modulus	JIS K-7312 25°C	MPa	0.2		
Volume Resistivity	JIS K-6911 25°C	Ω·cm	5.1 x 10 ¹²		
Dielectric Constant	JIS K-6911 1kHz 100KHz 1MHz		5.4	4.5	4.0
Dielectric Loss Tangent	JIS KL6911 1kHz 100KHz 1MHz	%	2.4	8.2	9.2
Breakdown Voltage	JIS C-2110 23°C 50%RH	kV/mm	16		
Water Absorption	JIS K-6911 boil for 1hr	wt%	0.64		
	25°C 24hrs		0.47		
Cure Shrinkage	NPST-1 5.6(B), 190g, 25°C	%	0.79		

The above values are typical and not specification.



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