

Pel-Urethane[®]

Product Name	MU-120A/MU-120B
Product Category	Polyurethane Resin for Electronics
Usage	Substrates
Function	Flexible, Low Stress, Heat Resistant, Stress Release, Shock Absorption

As supplied

(Typical Value)

Item	Condition	Unit	MU-120A	MU-120B
Appearance	visual		Colorless	Brown
Specific Gravity	25°C		1.12	1.21
Viscosity	25°C	mPa·s	4700	60
Mixing Ratio	parts by weight		100/5	
	parts by volume		100/4.5	
Mixed Viscosity	25°C	mPa·s	3600	
Pot Life	25°C 130g Time for viscosity to double	min	10	
Gel Time	80°C、25 g	min	9~10	

Standard Curing Condition 80°C-2hour

As cured

Item	Condition	Unit	Typical Value
Appearance	visual	-	pale yellow
Hardness	JIS K-7215 25°C	Asker C2	32
Tensile Strength	JIS K-7113, dumbbell No.2	MPa	0.42
Tear Strength	JIS K-7113, Angle type	N/mm	-
Elongation	JIS K-7113, dumbbell No.2	%	125
Shear Adhesive Strength	JIS K 6850, -40°C,	MPa	0.76
	JIS K 6850, 25°C,	MPa	0.01
	JIS K 6850, 150°C,	MPa	0.03
Volume Resistivity	JIS K 6911 25°C	Ω·cm	1.6×10 ¹⁴
dielectric constant	JIS K 6911 1kHz 100kHz 1MHz	-	4.0 3.8 3.5
dielectric tangent	JIS K 6911 1kHz 100kHz 1MHz	%	1.4 3.6 5.7
Water Absorption	boil for 2 hrs, 3mmt	%	0.39
Glass Transition Temperature	TMA	°C	-56
Coefficient of Thermal Expansion	below Tg	/°C	2.0×10 ⁻⁵
	above Tg	/°C	38×10 ⁻⁵
Heated weight reduction	150°C,1000hrs	%	-1.89
Thermal Conductivity	300g	W/mK	0.3

Curing Condition : 80°C-2hour

The above values are typical and not specification



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