

Pel-Urethane®

Product Name	MU-642A/MU-642B
Product Category	Urethane Elastomer
Usage	Light Guide Resin
Function	Non Yellowish, Highly Transparent

As supplied

(Typical Value)

Item	Condition	Unit	MU-642A	MU-642B
Appearance	visual	—	Colorless~ Light yellow clear	Colorless~ Light yellow clear
Specific Gravity	25°C	—	1.09	1.14
Viscosity	25°C	mPa·s	1,300	2,400
Mixing Ratio	parts by weight		100/100	
	parts by volume		100/96	
Mixed Viscosity	25°C	mPa·s	1,800	
Pot Life	25°C, cup, 100g	minute	60~75	
Gel Time	room temp., cup, 100g	hour	1.5	
	room temp., 2~3mm sheet	hour	6~8	
Tack Free Time	room temp., cup, 100g	hour	2	
	room temp., 2~3mm sheet	hour	8~12	

As cured

Item	Condition	Unit	Typical Value
Appearance	visual		Colorless transparent
Hardness	JIS K-7215	Shore A	80 - 85
Glass Transition Temp.	TMA	°C	2.9
Coefficient of Thermal Expansion	below Tg	/°C	9.3×10^{-5}
	above Tg	/°C	2.0×10^{-4}
Tensile Strength	JIS K-7312 dumbbell No.2	MPa	16
Elongation	JIS K-7312 dumbbell No.2	%	180
Tear Strength	JIS K-7312 angle type	N/mm ²	21
Heat Resistance	80°C, 1000hrs	appearance	no change
Total Light Transmittance	2mmt sheet	%	93
Haze	2mmt sheet	%	5.6
Refractive Index	2mmt sheet	-	1.50
Water Absorption	boil for 2hrs, 3mm thickness	%	3.02

The above values are typical and not specification.



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