

# MTT Vacuum Casting Resins

## Product Data Sheet

**SG-95N**

Type	Similar to ABS. Transparent. Optical properties.		
Colour (Product Colour)		Part A Part B	Transparent Transparent
Mixing Ratio	By Weight (A/B)	<b>100:140</b>	<b>Test / ISO</b>
Pot Life	Sec. (100g, @ 25°C)	<b>340</b>	
Viscosity (cPs @ 25°C)	Part A Part B	<b>930 140</b>	
Specific Gravity (@ 25°C)	Part A Part B	<b>1.05 1.20</b>	
Hardness shore D		<b>83</b>	
Flexural Strength (N/mm <sup>2</sup> )		<b>103</b>	178
Flexural Modulus (N/mm <sup>2</sup> )		<b>2200</b>	178
Tensile Modulus (N/mm <sup>2</sup> )		<b>2000</b>	180
Tensile Strength (N/mm <sup>2</sup> )		<b>65</b>	R 527
Izod Impact (Kj/m <sup>2</sup> )		<b>14</b>	180
Elongation Break (%)		<b>26</b>	R 527
Tear Strength (N/mm <sup>2</sup> )		--	34
Thermal Conductivity (W/mK)		--	BS874
Heat Deflection Temp (°C) Test Piece 110 x 12.7 x 6.4mm		<b>85</b>	
Yield Strength (N/mm <sup>2</sup> )		--	R 527
Elongation Yield (%)		--	
Curing Time minutes @ 65°C - 70°C		<b>45 - 60</b>	
Shrinkage (%) According to Wall Thickness		<b>0.3</b>	

### TD SG95N -01

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications.

<b>Optical properties</b>	<b>Condition / Unit</b>	
Total light transmittance	JIS K-7105 5.5 %	90.08
Diffuse Transmittance	JIS K-7105 5.5 %	1.01
Parallel Light transmittance	JIS K-7105 5.5 %	89.07
Refractive index	JIS K-7105 5.1	1.581
Haze	JIS K-7105 6.4	1.12
Ultraviolet Transmittance	JIS A-5759 (t=5)	43.00
Visible radiation Transmittance	JIS A-5759 (t=5)	97.10

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<b>Electrical properties</b>	<b>Condition / Unit</b>	
Surface resistivity	JIS K-6911, Ohm	$10 \times 10^{16}$
Volume resistivity	JIS k-6911, Ohm.cm	$1.5 \times 10^{17}$

	<b>Condition / Unit</b>	<b>1kHz</b>	<b>10kHz</b>	<b>100kHz</b>	<b>1MHz</b>
Permittivity	JIS K-6911	3.8	4.3	4.2	3.8
Dielectric Dissipation Factor	JIS K-6911	0.7	1.7	2.3	1.8