

# TECHNICAL DATA SHEET

Manufacturer Name	<b>SHEETSOL PVT. LTD,</b> Raipur, Chhattisgarh, India-492 001.
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## Product Details

Product Name	Sheetsol POE
Product Type	POE Encapsulant - Polymeric Material
Test Items	<b>SS-UFC-T100 POE</b>

<b>Test / Parameter</b>	<b>Test Method</b>	<b>unit</b>	<b>Customer specification</b>
Thickness	-	mm	0.50 - .80mm ± 10%
Density	ASTMD 792	g/cm <sup>3</sup>	0.88
Thermal Shrinkage	160 °C on glass plate for 5 min.	%	≤3
Tensile Strength	ASTM D638	MPa	12 ± 3
Elongation at break	ASTM D 638	%	≥ 500
Peel strength (Glass/Film)	ASTM D903	N/cm	≥70
Peel strength (TPT/Film)	ASTM D903	N/cm	≥70
Specific Heat	ISO22007 PART 2	j/g. k	1.96-2.01
Optical Transmission after curing	ASTM E424 SPECTROPHOTO METER	%	≥91
UV Cut Off Wavelength	ASTM E424 SPECTROPHOTO METER	nm	360
Yellow Index	ΔYI	-	≤2
Gel Content	ASTM D2765-01	%	≥50
Refractive Index	ISO489		1.49
Volume Resistivity	ASTM D257	Ohm.cm	1.0 x 10 <sup>16</sup>
Water absorption	ISO 62-200805	%	0.10

## Lamination Parameters

Evacuation Time	-	Minutes	6 to 8
Lamination Time	-	Minutes	12 to 16
Temperature	-	°C	150 to 165

## Storage and Packing Details

Storage Conditions	Store in sealed packing at temperature < 28°C & humidity < 60%
Shelf Life	Recommended to use before 6 months from the date of manufacture