

## ESS DEE Rx MEMBRANE

### Technical Data Sheet

S.N.	Parameter	Method	Unit	PVC	PVC	PVC
1	Color/Appearance	Industry Standard	$\Delta E$ /Visual	As per standard	As per standard	As per standard
2	Total thickness of the film	DIN 53370	micron	200 $\pm$ 7 % (186 to 214)	250 $\pm$ 7% (232.5 to 262.5)	300 $\pm$ 7% (279 to 321)
3	Grammage of PVC film	DIN EN ISO 2286	Gms/sq. mtr.	272 $\pm$ 7% (253 to 291)	340 $\pm$ 7% (316.2 to 363.8)	408 $\pm$ 7% (379.44 to 436.56)
4	Dimensional Stability @140°C for 5 minutes (Longitudinal)	ASTM D 1204	%	-7.0 max	-7.0 max	-7.0 max
5	Dimensional Stability @140°C for 5 minutes (Transverse)	ASTM D 1204	%	+2.0 max	+2.0 max	+2.0 max
6	Peak Elongation (Longitudinal)	ASTM D882	%	5.0 min	5.0 min	5.0 min
7	Peak Elongation (Transverse)	ASTM D882	%	5.0 min	5.0 min	5.0 min
8	Tensile Strength (Longitudinal)	ASTM D882	kg/cm <sup>2</sup>	450 min	450 min	450 min
9	Tensile Strength (Transverse)	ASTM D882	kg/cm <sup>2</sup>	450 min	450 min	450 min
10	Impact Strength(from 1.5 $\pm$ 0.02 m Height)	ASTM D 1709	gm	350 min	350 min	350 min
11	Heat Seal Strength	Industry Standard	kg/cm	0.30	0.30	0.30
12	Surface Tension	Industry Standard	Dynes	37.0 min	37.0 min	37.0 min

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13	Forming temperature & Forming properties	Industry Standard	°C	130 to 170 Film should not form pinholes after thermoforming.	130 to 170 Film should not form pinholes after thermoforming	130 to 170 Film should not form pinholes after thermoforming
14	Toxicity Test	USP Current Edition	--	Non Toxic	Non Toxic	Non Toxic
15	Global Migration	2005/79/EC	ppm	<60	<60	<60
16	Average value of WVTR @ 90 % RH & 38°C	ASTM F 1249-90	gm/m <sup>2</sup> .d	3.0 max	3.0 max	3.0 max
17	Identification	FTIR	- -	As per Standard	As per Standard	As per Standard
18	Appearance/Surface defects	Industry Standard	Visual	Film should be free from black & foreign particles, dirt, dust, pinholes.	Film should be free from black & foreign particles, dirt, dust, pinholes.	Film should be free from black & foreign particles, dirt, dust, pinholes.
19	Joints Per Reel	----	----	As per Customer Specification	As per Customer Specification	As per Customer Specification
20	Quality of winding	Industry Standard	---	Not zigzag, no telescopic winding.	Not zigzag, no telescopic winding.	Not zigzag, no telescopic winding.
21	Type of Tape & colour used for Joint	----	----	Paper Tape / BOPP Tape (Colour as per requirement)	Paper Tape / BOPP Tape (Colour as per requirement)	Paper Tape / BOPP Tape (Colour as per requirement)
22	Core Type	----	----	As per requirement	As per requirement	As per requirement
23	Core ID	----	mm	76mm ± 0.5mm	76mm ± 0.5mm	76mm ± 0.5mm

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24	Width Tolerance	----	mm	± 1.0 mm	± 1.0 mm	± 1.0 mm
25	OD / Length Of Reel	----	mm/mtrs	As per works order	As per works order	As per works order
26	Type of packing	----	----	Corrugated cartons / Pallets	Corrugated cartons / Pallets	Corrugated cartons / Pallets

- Storage and handling instructions are important to achieve best result in ambient room temperature. Avoid direct sunlight.
- Above-mentioned specifications are standard specifications. We also offer tailor made specifications as per customer's requirement i.e. different combinations of film (thickness).