

DEESAWALA RUBBER INDUSTRIES,  
HYDERABAD AN ISO 9001:2015  
COMPANY TECHNICAL DATA SHEET

TDS NO.: DEESA-Swell Bar-03

1 .Part Description: Polymeric Swell Bar

2. Colour & Appearance : Blue/Black &

Rubbery 3. Characteristics: Hydrophilic in Nature

4. Material:

Main Components:

a) Synthetic Rubber Blend b) Hydrophilic Fillers and 3) Hydrophilic Resins

5. Shape & Size:



Part No	Dimension (mm)	
	W	H
DEESA-15/10	15	10
DEESA-25/20	25	20
DEESA-20/20	20	20
DEESA-20/10	20	10

6. Physical Characteristics:

Specimen: 2 mm sheet is prepared by using same formulated recipe with vulcanization in press.

S. No.	Description	Unit	Internal Specified Value	Test Method	Analysis Report	Status
1.	Specific Gravity	---	1.43±0.3	ISO 1183	1.43	OK
2.	Hardness	Shore A	Max 70	ISO 48	63	OK
3.	Tensile Strength	MPa	1 Min.	ISO 37	2	OK
4.	Elongation at Break	%	300 Min	ISO37	400	OK

7. Swelling Properties:

Specimen: Pressed rubber sheet of the same compound of Hydrophilic portion and with Hydrophilic & Non-Hydrophilic portion:

Test water: Distilled Water/5% NaCL, Temperature: 23°C, Immersion Time: 7 days

Description	Unit	Specification	Test Method	Analysis Report	Status
Vol. Expansion Hydrophilic (DW)	%	Min 200%	In house Test	500-600%	OK

Vol. Expansion both Hydrophilic+ Non Hydrophilic (DW)	%	Min 50%	In house Test	180-220%	OK
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Vol. Expansion both Hydrophilic+ Non Hydrophilic (5% NaCl)	%	Min 50%	In house Test	180-240%	OK
Vol. Expansion both Hydrophilic+ Non Hydrophilic (Tap water)	%	Min 50%	In house Test	180-240%	OK

**Volume recovery after Swelling:** As the Swell Bar is made with Hydrophilic polymer not with hydrophilic filler, it takes water with contact of water and after removing from water it releases water with time and come to original position within a certain time and it can be used again as swell bar. These cycles will go long as the polymeric material does not deteriorate its properties.

**Shelf Life:** As the swell bar is a composition of synthetic polymeric material, it has weather resistance properties, and shelf life ranges from 5-7 years in shaded area with controlled temperature from 23-30°C and with no stress on packed material.

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