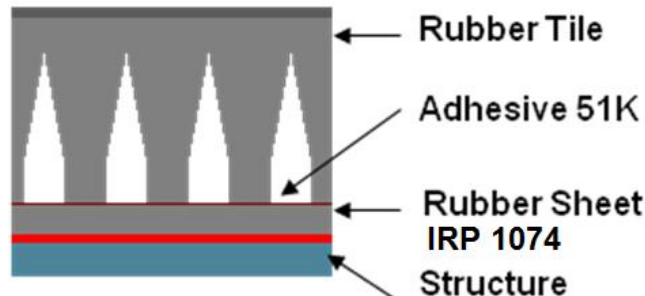


Rubber Sheet (IRP1075) for fabrication of Sound Insulation Coating

Sound Insulation Coatings (SIC) are used in submarines for suppression of submarine self noise from getting transmitted outside the outer hull. SIC is fabricated by covering the perforated side of 51mm thick acoustic with plain rubber sheet which prevents water ingress in to the acoustic tile. NMRL has developed the rubber compound for the plain rubber sheet (IRP1075) for application on SIC. The major requirement of the plain rubber sheet is high strength, high rubber to rubber adhesion.



Salient Features:

- ❖ Physical appearance – Vulcanised rubber sheet with fabric impression on one side
- ❖ Size of rubber sheet – 4.1m x 800mm x 4mm thickness
- ❖ Application – by adhesive bonding
- ❖ Good tensile strength
- ❖ Good rubber to rubber bond strength
- ❖ Can be made using conventional rubber processing machinery

Area of application:

- ❖ Used for fabrication of Sound Insulation Coating in ships

Facility required for manufacturing the rubber sheets:

- Two roll rubber mixing mill (minimum batch size 20kg)
- Rubber dispersion kneader (minimum batch size 20kg)
- Compression moulding machine (platen size 4m x 1m) or Rubber calandering machine with vulcanizer