

# SANKHLA INDUSTRIES

## Technical Specification of PVC Compound

### Grade: PS 00 44 NL

**Description:** PS00 44 NL conforms to Type ST1 Non – Lead stabilized sheathing grade of IS 5831 – 1984 for wire and cable applications. It is formulated with carefully selected PVC resins, Plasticizers, Stabilizers & other additives.

| Properties  | unit               | Test Method      | SI 2199 Specification        | Typical value *        |
|---|--------------------|------------------|------------------------------|------------------------|
| <b>Specific gravity</b>                                       | -                  | ASTM D 729       | 1.40 ± 0.02                  | 1.39                   |
| <b>Shore hardness</b>   | "A"                | ASTM D 2240      | 78 ± 2                       | 78                     |
| <b>Before Ageing</b>  |                    |                  | <b>IS 5831 Specification</b> | <b>Typical value**</b> |
| Tensile strength  | N/mm <sup>2</sup>  | IS 10810 Part 7  | 12.5 (min)                   | 15.5                   |
| Elongation at break   | %                  |                  | 150 (min)                    | 270                    |
| <b>After ageing @ 80°C ± 2°C for 7 days</b>                   |                    |                  |                              |                        |
| Tensile strength  | N/mm <sup>2</sup>  | IS 10810 Part 11 | 12.5 (min)                   | 16.59                  |
| Variation in Tensile strength                                 | %                  |                  | ± 20                         | 7                      |
| Elongation at break   | %                  |                  | 150 (min)                    | 257                    |
| Variation in Elongation                                       | %                  |                  | ± 20                         | - 5                    |
| <b>Thermal Stability @ 200°C ± 0. 5°C</b>                     | Minutes            | IS 10810 Part 60 | 40 (min)                     | > 40                   |
| <b>Heat Shrinkage @ 150°C ± 2°C &amp; Duration 15 minutes</b> |                    |                  |                              |                        |
| <b>Shrinkage</b>  | %                  | IS 10810 Part 12 | 4 (max)                      | 2                      |
| <b>Loss Of Mass In Air Oven @ 80°C ± 2°C for 7 days</b>       |                    |                  |                              |                        |
| Loss Of Mass  | mg/cm <sup>2</sup> | IS 10810 Part 10 | 2 (max)                      | 0.9                    |

\* Data evaluated on 25x25x4mm thick compression moulded block.

\*\* Data evaluated on extruded sleeve of thickness between 0.8 – 1.2 mm / 1- 2 mm thick sheets.

**Processing Techniques:** PS00 44 NL can be processed on any good PVC extruder with a temperature range of 140°C - 170°C and preheating the same up to 70°C, in humid climates, is recommended to avoid moisture bubbles on end products.

**Colouring:** It can be coloured with 2 to 4% Non – Lead PVC compatible master batches without affecting end product properties.

**Package Storage & Handling:** PS00 44 NL pellets should be packed in airtight laminated plastic bags of 25 Kg net weight and stored in a cool & dry place away from sunlight. Use of gloves and nose mask is recommended during manual handling.

**Safety:** PS00 44 NL does not undergo hazardous decomposition under normal storage conditions. Static charges may be generated by conveying PVC pellets and, therefore, the conveying systems should be properly grounded.

**Spillage:** Vacuum cleaning.

**Disposal:** Waste PVC pellets should be disposed in accordance with local regulations. The product is intended for industrial use only. MSDS is available on request.

**Disclaimer:** The above test results should be used only as a guideline. The material performance depends on different conditions of processing and fabrication. Consequently, users are advised to establish for themselves that the material is suitable for their end product requirements.

|   |  |   |
|---|--|---|
| Address : Regd. Office<br>NO 2, First Floor<br>Race Course Road<br>Bangalore - 560001 | <b>SANKHLA INDUSTRIES</b><br>Phone : +91-80-22250975 / 22286099<br>Fax : +91-80-22282496 | Website : <a href="http://www.sankhlaindustries.com">www.sankhlaindustries.com</a><br>E-mail : <a href="mailto:info@sankhlaindustries.com">info@sankhlaindustries.com</a><br>E-mail : <a href="mailto:pvccompound@airtelmail.in">pvccompound@airtelmail.in</a><br>E-mail : <a href="mailto:pvc_compound@vsnl.com">pvc_compound@vsnl.com</a> |
|---|--|---|