

# SANKHLA INDUSTRIES

## Technical Specification of PVC Compound

### Grade: PS 14

**Description:** PS 14 conforms to Type C lead stabilized insulation 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 1399 Specification	Typical value *
Specific gravity	-	ASTM D 729	1.4 ± 0.02	1.4
Shore hardness	"A"	ASTM D 2240	90 ± 2	90
<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)	17
Elongation at break	%		125 (min)	250
<b>After ageing @ 135°C ± 2°C for 7 days</b>				
Tensile strength	N/mm <sup>2</sup>	IS 10810 Part 11	12.5 (min)	18
Variation in Tensile strength	%		± 25	5.9
Elongation at break	%		125 (min)	235
Variation in Elongation	%		± 35	- 6
<b>Thermal Stability @ 200°C ± 0. 5°C</b>	Minutes	IS 10810 Part 60	100 (min)	> 100
<b>Heat Shrinkage @ 150°C ± 2°C &amp; Duration 15 minutes</b>				
Shrinkage	%	IS 10810 Part 12	4 (max)	1.5
Volume Resistivity @ 27 ° C	Ohm-cm	IS 10810 Part 43	1x 10 <sup>13</sup> (min)	5.5 x 10 <sup>13</sup>
Volume Resistivity @ 70 ° C	Ohm-cm		1x 10 <sup>10</sup> (min)	9 x 10 <sup>10</sup>
<b>Cold bend test for diameter &lt; 12.5 mm @ -15°C ± 2°C &amp; Duration 2-3 hrs</b>				
Visual examination	-	IS 10810 Part 20	No cracks or scales	No cracks or scales

\* 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:** PS14 can be processed on any good PVC extruder with a temperature range of 140°C - 185°C and preheating the same up to 70°C is recommended to avoid moisture bubbles on end products.

**Colouring:** It can be coloured with 2 to 4% PVC compatible masterbatches without affecting end product properties.

**Package Storage & Handling:** PS14 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:** PS14 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

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