

# SANKHLA INDUSTRIES

## Technical Specification of PVC Compound

### Grade: PS 11

**Description:** PS 11 conforms to Type B 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 1299 Specification	Typical value*
Specific gravity	-	ASTM D 729	1.34 ± 0.02	1.34
Shore hardness	"A"	ASTM D 2240	92 ± 2	92
<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)	20
Elongation at break	%		125 (min)	230
<b>After ageing @ 100°C ± 2°C for 7 days</b>				
Tensile strength	N/mm <sup>2</sup>	IS 10810 Part 11	12.5 (min)	21
Variation in Tensile strength	%		± 25	5
Elongation at break	%		125 (min)	210
Variation in Elongation	%		± 25	- 8.7
<b>Thermal Stability @ 200°C ± 0. 5°C</b>	Minutes	IS 10810 Part 60	80 (min)	> 80
<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>14</sup> (min)	4 x 10 <sup>14</sup>
Volume Resistivity @ 70°C	Ohm-cm		1x 10 <sup>11</sup> (min)	3 x 10 <sup>11</sup>
<b>Cold bend test (for dia &lt;12.5mm) Test temperature @ - 5°C ± 2°C Duration of test 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:** PS 11 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:** PS 11 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:** PS 11 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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