

# SANKHLA INDUSTRIES

## Technical Specification of PVC Compound

### Grade: PS 10

**Description:** PS 10 conforms to Type 2 lead stabilized insulation of IS 13176-1991 for telecommunication drop wire and cable applications. It is formulated with carefully selected PVC resins, Plasticizers, Stabilizers & other additives.

Properties	Unit	Test Method	SI 1499 Specification	Typical value*
Specific gravity	-	ASTM D 729	1.41 ± 0.02	1.41
Shore hardness	"A"	ASTM D 2240	94 ± 2	95
<b>Before Ageing</b>			<b>IS 13176 Specification</b>	<b>Typical value**</b>
Tensile strength	N/mm <sup>2</sup>	IS 10810 Part 7	17.5 (min)	20
Elongation at break	%		125 (min)	245
<b>Low temperature bend test diameter &lt; 12.5 mm</b>				
temperature	°C	IS 13176 - 1991	- 15 ± 2 °C	
Visual examination	-		No cracks/scales	No cracks/scales
<b>Resistance to cracking @ 150°C ± 2°C &amp; Duration 1 hour</b>				
Visual examination	-	IS 10810 Part 14	No cracks/scales	No cracks/scales
Volume Resistivity @ 27°C	Ohm-cm	IS 10810 Part 43	1x 10 <sup>14</sup> (min)	3 x 10 <sup>14</sup>
Volume Resistivity @ 70°C	Ohm-cm		1x 10 <sup>11</sup> (min)	4.5 x 10 <sup>11</sup>
<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:** PS 10 can be processed on any good PVC extruder with a temperature range of 150°C - 195 °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 10 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 10 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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