

SANKHLA INDUSTRIES

Technical Specification of PVC Compound

Grade: SP300 IS NP

Description: SP 300 IS NP conforms to Type A 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 1199 Specification	Typical value*
Specific gravity	-	ASTM D 729	1.42 ± 0.02	1.43
Shore hardness	"A"	ASTM D 2240	89 ± 2	89
Before Ageing			IS 5831 Specification	Typical value**
Tensile strength	N/mm ²	IS 10810 Part 7	12.5 (min)	17.5
Elongation at break	%		150 (min)	260
After ageing @ 80°C ± 2°C for 7 days				
Tensile strength	N/mm ²	IS 10810 Part 11	12.5 (min)	18.5
Variation in Tensile strength	%		± 20	5.7
Elongation at break	%		150 (min)	240
Variation in Elongation	%		± 20	- 7.7
Thermal Stability @ 200°C ± 0. 5°C	Minutes	IS 10810 Part 60	80 (min)	> 80
Heat Shrinkage @ 150°C ± 2°C & Duration 15 minutes				
Shrinkage	%	IS 10810 Part 12	4 (max)	1.5
Volume Resistivity @ 27°C	Ohm-cm	IS 10810 Part 43	1x 10 ¹³ (min)	5 x 10 ¹³
Volume Resistivity @ 70°C	Ohm-cm		1x 10 ¹⁰ (min)	7 x 10 ¹⁰
Loss Of Mass In Air Oven @ 80°C ± 2°C for 7 days				
Loss Of Mass	mg/cm ²	IS 10810 Part 10	2 (max)	1

* 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: SP 300 IS NP can be processed on any good PVC extruder with a temperature range of 140°C - 180°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: SP 300 IS NP 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: SP 300 IS NP 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 NO 2, First Floor Race Course Road Bangalore - 560001	SANKHLA INDUSTRIES Phone : +91-80-22250975 / 22286099 Fax : +91-80-22282496	Website : www.sankhlaindustries.com E-mail : info@sankhlaindustries.com E-mail : pvccompound@airtelmail.in E-mail : pvc_compound@vsnl.com
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