

SANKHLA INDUSTRIES

Technical Specification of PVC Compound

Grade: PS 14 01 NL

Description: PS 14 01 NL conforms to Type C Non - Lead stabilized insulation of IS 5831 – 1984 for wire & cable applications. It is formulated with carefully selected PVC resins, Plasticizers, Stabilizers & other additives.

Properties	unit	Test Method	SI 1300 Specification	Typical value *
Specific gravity	-	ASTM D 729	1.4 ± 0.02	1.4
Shore hardness	"A"	ASTM D 2240	91 ± 2	91
Before Ageing			IS 5831 Specification	Typical value **
Tensile strength	N/mm ²	IS 10810 Part 7	12.5 (min)	17.5
Elongation at break	%		125 (min)	260
After ageing @ 135°C ± 2°C for 7 days				
Tensile strength	N/mm ²	IS 10810 Part 11	12.5 (min)	18.55
Variation in Tensile strength	%		± 25	6
Elongation at break	%		125 (min)	234
Variation in Elongation	%		± 35	- 10
Thermal Stability @ 200°C ± 0. 5°C	minutes	IS 10810 Part 60	100 (min)	> 100
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)	8 x 10 ¹⁰
Cold bend test for diameter < 12.5 mm @ -15°C ± 2°C & Duration 2-3 hrs				
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 14 01 NL 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% Non – Lead PVC compatible masterbatches without affecting end product properties.

Package Storage & Handling: PS 14 01 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: PS 14 01 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.

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