SANKHLA INDUSTRIES

Technical Specification of PVC Compound
Grade: SB 907 MATT

Description: SB 907 MATT conforms to Type ST1 lead stabilized sheathing grade of IS 5831 – 1984 for cable applications. It is formulated with carefully selected PVC resins, Plasticizers, Stabilizers & other additives.

Properties	unit	Test Method	SI 2199 Specification	Typical value *
Specific gravity	-	ASTM D 729	1.52 ± 0.02	1.52
Shore hardness	"A"	ASTM D 2240	92 ± 2	92
Before Ageing			**IS 5831Specification**	**Typical value****
Tensile strength	N/mm^2	IS 10810 Part 7	12.5 (min)	16
Elongation at break	%		150 (min)	260
After ageing @ 80ºC ± 2ºC for 7 days				
Tensile strength	N/mm^2	IS 10810 Part 11	12.5 (min)	17.12
Variation in Tensile strength	%		± 20	7
Elongation at break	%		150 (min)	247
Variation in Elongation	%		± 20	- 5
Thermal Stability @ 200ºC ± 0. 5ºC	Minutes	IS 10810 Part 60	40 (min)	> 40
Heat Shrinkage @ 150ºC ± 2ºC & Duration 15 minutes				
Shrinkage	%	IS 10810 Part 12	4 (max)	2.5
Loss Of Mass In Air Oven @ 80ºC ± 2ºC for 7 days				
Loss of Mass	mg/cm^2	IS 10810 Part 10	2 (max)	1.2
Cold bend test for diameter < 12.5 mm @ -15ºC ± 2ºC & Duration 2-3 hrs				
Visual examination	-	IS 10810 Part 20	No cracks / scales	No cracks / 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: SB 907 MATT can be processed on any good PVC extruder with a temperature range of 140ºC - 185ºC and preheating the same up to 70 º C, in humid climates, is recommended to avoid moisture bubbles on end products.

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

Package Storage & Handling: SB 907 MATT 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: SB 907 MATT 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 there end product requirements.

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