

# SANKHLA INDUSTRIES

## Technical Specification of PVC Compound

### Grade: FX 9 UV

**Description:** FX 9 UV conforms to Type ST2 lead and UV stabilized sheathing grade 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 2299 Specification	Typical value *
Specific gravity	-	ASTM D 729	1.52 ± 0.02	1.52
Shore hardness	"A"	ASTM D 2240	90 ± 2	91
<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)	15.5
Elongation at break	%		150 (min)	240
<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)	16.43
Variation in Tensile strength	%		± 25	6
Elongation at break	%		150 (min)	223
Variation in Elongation	%		± 25	- 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)	2.5
<b>Loss Of Mass In Air Oven @ 100°C ± 2°C for 7 days</b>				
Loss Of Mass	mg/cm <sup>2</sup>	IS 10810 Part 10	2 (max)	1.2
<b>FRLS TEST</b>				
Oxygen Index	%	ASTM D 2863	29 (min)	30.8
Temperature index	°C		250 (min)	285
HCL Emission	%	IEC - 754	20 (max)	16
Smoke density rating	%	ASTM D 2843	60 (max)	58.5

\* 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:** FX 9 UV can be processed on any good PVC extruder with a temperature range of 140° C - 185 ° C and Pre-heating 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 master batches without affecting end product properties.

**Package Storage & Handling:** FX 9 UV 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:** FX 9 UV 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.

<b>Address : Regd. Office</b> NO 2, First Floor Race Course Road Bangalore - 560001	<b>SANKHLA INDUSTRIES</b> Phone : +91-80-22250975 / 22286099 Fax : +91-80-22282496	<b>Website : <a href="http://www.sankhlaindustries.com">www.sankhlaindustries.com</a></b> <b>E-mail : <a href="mailto:info@sankhlaindustries.com">info@sankhlaindustries.com</a></b> <b>E-mail : <a href="mailto:pvccompound@airtelmail.in">pvccompound@airtelmail.in</a></b> <b>E-mail : <a href="mailto:pvc_compound@vsnl.com">pvc_compound@vsnl.com</a></b>
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