

# SANKHLA INDUSTRIES

## Technical Specification of PVC Compound

### Grade: TPR PW IV NL BLACK

**Description:** TPR PW IV NL BLACK is a thermo plastic rubber comprising Poly Vinyl Chloride – Nitrile Butadiene rubber blend. It conforms to Type ST1 Non – Lead 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 2199 Specification	Typical value *
Specific gravity	-	ASTM D 729	1.36 ± 0.02	1.36
Shore hardness	"A"	ASTM D 2240	87 ± 2	87
<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)	14
Elongation at break	%		150 (min)	300
<b>After ageing @ 80°C ± 2°C for 7 days</b>				
Tensile strength	N/mm <sup>2</sup>	IS 10810 Part 11	12.5 (min)	15.26
Variation in Tensile strength	%		± 20	9
Elongation at break	%		150 (min)	278
Variation in Elongation	%		± 20	- 7.5
<b>Thermal Stability @ 200°C ± 0. 5°C</b>	Minutes	IS 10810 Part 60	40 (min)	> 40
<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 @ 80°C ± 2°C for 7 days</b>				
Loss Of Mass	mg/cm <sup>2</sup>	IS 10810 Part 10	2 (max)	1.6

\* 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:** TPR PW IV NL BLACK 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, in humid climates, is recommended to avoid moisture bubbles on end products.

**Package Storage & Handling:** TPR PW IV NL BLACK pellets should be packed in airtight laminated plastic bags of 25 Kg net weight and stored in a cool and dry place away from sunlight. Use of gloves and nose mask is recommended during manual handling.

**Safety:** TPR PW IV NL BLACK 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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