

## **TC-01**

### **Shriram Polytech Flex PVC Compound**

#### **General Information**

Material Status	<ul style="list-style-type: none"> <li>• <b>Commercially Active</b></li> </ul>
Application	<ul style="list-style-type: none"> <li>• <b>Wire &amp; Cable</b></li> </ul>
Type Of Compound	<ul style="list-style-type: none"> <li>• <b>Type-B Railway Signaling /Telecommunication Wire Insulation</b></li> </ul>
Color	<ul style="list-style-type: none"> <li>• <b>Natural</b></li> </ul>
Forms	<ul style="list-style-type: none"> <li>• <b>Pellets</b></li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>• <b>Extrusion</b></li> </ul>

#### **Test Results**

<b>Physical</b>	<b>Test Method</b>	<b>Specification</b>	<b>Unit</b>
<b>Specific Gravity</b>	<b>ASTM D 792</b>	1.35±0.03	-
<b>Mechanical</b>	<b>Test Method</b>	<b>Specification</b>	<b>Unit</b>
<b>Tensile Strength at Break</b>	<b>IS-10810 (P-7)</b>	≥200	kg/cm <sup>2</sup>
<b>Elongation at Break</b>	<b>IS-10810 (P-7)</b>	≥225	%
<b>Hardness</b>	<b>Test Method</b>	<b>Specification</b>	<b>Unit</b>
<b>Shore 'A' Hardness (15 sec delay)</b>	<b>ASTM D 2240</b>	90±3	-
<b>Thermal Stability</b>	<b>Test Method</b>	<b>Specification</b>	<b>Unit</b>
<b>Thermal Stability at 200 °C</b>	<b>IS-5831</b>	≥120	Minutes
<b>Electrical</b>	<b>Test Method</b>	<b>Specification</b>	<b>Unit</b>
<b>Volume Resistivity</b>	<b>ASTM-D 257</b>	≥8.0x10 <sup>14</sup>	Ohm-cm
<b>Type Test</b>	<b>Test Method</b>	<b>Specification</b>	<b>Unit</b>
<b>Heat Aging @ 100°C for 7 days</b>			
<ul style="list-style-type: none"> <li>• <b>Variation in Tensile Strength</b></li> </ul>	<b>IS-10810 (Part 11)</b>	±25	kg/cm <sup>2</sup>
<ul style="list-style-type: none"> <li>• <b>Variation in Elongation at Break</b></li> </ul>	<b>IS-10810 (Part 11)</b>	±25	%
<ul style="list-style-type: none"> <li>• <b>Loss of Mass</b></li> </ul>	<b>IS-10810 (Part 10)</b>	2	Mg/cm <sup>2</sup>
<b>Processing Information</b>			
<b>Temperature Range</b>		<b>150-170</b>	<b>°C</b>

**For better results pre-drying of granules is recommended @ 75±5°C for approximately 15 minutes.**

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