

## ***P.V.C COMPOUND***

*TII*

*Plasticized compound in pellet form recommended for insulation of power cables at admissible working temperature of 70 ° C.*

*It is sold as : Natural and Colored .*

*Natural grade can be tinted with colour masterbatches , permitting the user a wide margin of colouring possibility and presenting excellent machine processability in every case.*

### **APPLICATIONS**

*Its use in the electric cable industry covers the insulation of cables for lighting and power lines .*

### **TECHNICAL INFORMATION**

| <b>PHYSICAL AND MECHANICAL PROPERTIES</b>   | <b>Nominal Value</b> | <b>Test Method</b> |
|---|----------------------|--------------------|
| Density ( gm / cm <sup>3</sup> ) at 23 ° C  | 1.51±0.03            | ASTM D792          |
| Shore hardness “ A “ at 23 ° C  | 89± 3                | ASTM D2240         |
| Tensile strength ( N/mm <sup>2</sup> )  | ≥ 12.5               | ASTM D638          |
| Elongation ( % )  | ≥ 125                | ASTM D638          |
| Min . Tensile strength after aging ( N / mm <sup>2</sup> ) for 7 days at 80±2 ° C | 12.5                 | ASTM D638          |
| Min. Elongation after aging ( % ) for 7 days at 80±2 ° C                          | 125                  | ASTM D638          |
| Max. Decrease in strength and elongation after aging ( % )                        | 20                   | ASTM D638          |
| Loss of mass after aging mg/cm <sup>2</sup>                                       | 2                    | IEC 60811-3-2      |

### **TRANSFORMATION CONDITIONS**

*As a guide , we detail below processing conditions experienced on a 45 mmΦ extrusion machine screw length 22 D at 30 r.p.m .*

| <b>Type of Compound</b> | <b>SCREW TEMPERATURE</b> |                 |                 | <b>Head Temperature</b> | <b>Die Temperature</b> |
|-------------------------|--------------------------|-----------------|-----------------|-------------------------|------------------------|
|                         | <b>1st zone</b>          | <b>2nd zone</b> | <b>3rd zone</b> |                         |                        |
| <i>TI-I</i>             | <i>130° C</i>            | <i>140° C</i>   | <i>150° C</i>   | <i>165° C</i>           | <i>175° C</i>          |

***N.B :*** *since operating conditions in the use's plant are beyond our control , We cannot assume liabilities which may result from the use of our products.*

**REV. 02**