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**ESSENTRA**

COMPONENTS

## TECHNICAL DATA SHEET: PVC (Polyvinylchloride)

|                                     | ISO   | UNIT              | CONDITIONS | RESULTS     |
|-------------------------------------|-------|-------------------|------------|-------------|
| <b>GENERAL PROPERTIES</b>           |       |                   |            |             |
| Density                             | 620A  | g/cm <sup>3</sup> | 23°C       | 1.15 – 1.48 |
| <b>THERMAL PROPERTIES</b>           |       |                   |            |             |
| Cold Flex Temperature               | 150B  | °C                |            | -10 _ -50   |
| Service temperature                 |       |                   |            |             |
| Minimum                             |       | °C                |            | -30         |
| Maximum (continuous/intermittent)   |       | °C                |            | 50 / 70     |
| <b>MECHANICAL PROPERTIES</b>        |       |                   |            |             |
| Softness BSS number                 | 365A  |                   |            | 20 -120     |
| Hardness                            |       | Shore A           |            | 40 - 90     |
| Tensile strength                    | 320A  | MPa               |            | 5 - 20      |
| Elongation at break                 | 320A  | %                 |            | 250 - 450   |
| Modulus at 100% extension           | 320A  | MPa               |            | 2 - 15      |
| <b>FLAMMABILITY PROPERTIES</b>      |       |                   |            |             |
| Oxygen index                        | 4589  |                   |            | 25 - 40     |
| Flammability rating                 | UL 94 |                   |            | HB – V0     |
| <b>CHEMICAL PROPERTIES</b>          |       |                   |            |             |
| Resistance to Weak / Strong Acids   |       |                   |            | Good / Bad  |
| Resistance to Weak / Strong Alkalis |       |                   |            | Good / Bad  |
| Resistance to Organic Solvents      |       |                   |            | Bad         |
| Resistance to Oils and Greases      |       |                   |            | Bad         |
| Resistance to UV                    |       |                   |            | Good        |

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