



creative thermoplastic compounds

## Polytron P50N07

Release Date: 06/02/2014

**A Chemically Coupled 50% Long Glass Fiber Reinforced Natural Polypropylene, Heat Stabilized, UV Stabilized for Injection Moulding applications.**

ISO

| PHYSICAL PROPERTIES                     | UNIT              | TEST METHOD | VALUES  |
|-----------------------------------------|-------------------|-------------|---------|
| DENSITY                                 | g/m <sup>3</sup>  | ISO-1183    | 1.33    |
| MOULD SHRINKAGE                         | %                 | ISO-2577    | 0.2-0.3 |
| MECHANICAL PROPERTIES                   | UNIT              | TEST METHOD | VALUES  |
| TENSILE YIELD STRENGTH                  | MPa               | ISO-527     | 145     |
| TENSILE MODULUS                         | MPa               | ISO-527     | 12500   |
| STRAIN @ BREAK                          | %                 | ISO-527     | 1.9     |
| FLEXURAL STRENGTH                       | MPa               | ISO-178     | 220     |
| FLEXURAL MODULUS                        | MPa               | ISO-178     | 12000   |
| NOTCHED IZOD IMPACT STRENGTH +23°C      | Kj/m <sup>2</sup> | ISO-180     | 30      |
| NOTCHED CHARPY IMPACT STRENGTH +23°C    | Kj/m <sup>2</sup> | ISO-179     | 30      |
| NOTCHED CHARPY IMPACT STRENGTH -30°C    | Kj/m <sup>2</sup> | ISO-179     | 25      |
| UN NOTCHED CHARPY IMPACT STRENGTH +23°C | Kj/m <sup>2</sup> | ISO-179     | 70      |
| UN NOTCHED CHARPY IMPACT STRENGTH -30°C | Kj/m <sup>2</sup> | ISO-179     | 55      |
| THERMAL PROPERTIES                      | UNIT              | TEST METHOD | VALUES  |
| HDT AT LOAD 1.8 Mpa                     | °C                | ISO-75      | 152     |
| G.W.F.I                                 | °C                | IEC 60695   | 750     |
| FLAMMABILITY                            | mm/min            | FMVSS302    | 20      |
| UL FLAMMABILITY                         |                   | UL-94 3mm   | H.B.    |
| MELTING POINT                           | °C                | ISO-11357   | 168     |

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