



creative thermoplastic compounds

## RD104

Release Date: 19/05/2003

**Unfilled Flexible Polyamide 12 for Injection Moulding applications.**

ISO

| PHYSICAL PROPERTIES                | UNIT              | TEST METHOD | VALUES           |
|------------------------------------|-------------------|-------------|------------------|
| DENSITY                            | g/cm <sup>3</sup> | ISO-1183    | 1.02             |
| WATER ABSORPTION (SATURATION)      | %                 | ISO-62      | 0.9              |
| MOULD SHRINKAGE                    | %                 | ISO-2577    | 1.5              |
| MECHANICAL PROPERTIES              | UNIT              | TEST METHOD | VALUES           |
| TENSILE YIELD STRENGTH             | MPa               | ISO-527     | 40               |
| TENSILE MODULUS                    | MPa               | ISO-527     | 700              |
| STRAIN @ BREAK                     | %                 | ISO-527     | 300              |
| FLEXURAL STRENGTH                  | MPa               | ISO-178     | 45               |
| FLEXURAL MODULUS                   | MPa               | ISO-178     | 700              |
| NOTCHED IZOD IMPACT STRENGTH +23°C | Kj/m <sup>2</sup> | ISO-180     | 80               |
| ROCKWELL HARDNESS                  |                   | R scale     | 78               |
| THERMAL PROPERTIES                 | UNIT              | TEST METHOD | VALUES           |
| HDT AT LOAD 1.8 Mpa                | °C                | ISO-75      | 55               |
| HDT AT LOAD 0.45 Mpa               | °C                | ISO-75      | 125              |
| G.W.F.I                            | °C                | IEC 60695   | 650              |
| UL FLAMMABILITY                    |                   | UL-94 3mm   | H.B.             |
| MELTING POINT                      | °C                | ISO-11357   | 175              |
| ELECTRICAL PROPERTIES              | UNIT              | TEST METHOD | VALUES           |
| SURFACE RESISTANCE                 | Ohm               | IEC 60093   | 10 <sup>11</sup> |
| VOLUME RESISTANCE                  | Ohm x m           | IEC 60093   | 10 <sup>10</sup> |
| DIELECTRIC CONSTANT AT 1MHZ        | kV/mm             | IEC 60250   | 55               |

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