



creative thermoplastic compounds

## PB305G33BK37/43

Release Date: 02/11/2012

**33% Glass Fiber Reinforced, UV and Heat Stabilized Polyamide 6, approved and listed by W.R.A.S and NSF/ANSI 61 international for potable water.**

### ISO

| PHYSICAL PROPERTIES                               | UNIT              | TEST METHOD | VALUES           |
|---------------------------------------------------|-------------------|-------------|------------------|
| DENSITY                                           | g/m <sup>3</sup>  | ISO-1183    | 1.37             |
| WATER ABSORPTION (SATURATION)                     | %                 | ISO-62      | 6.6              |
| MOISTURE ABSORPTION<br>23° C, 50% RH (SATURATION) | %                 | ISO-62      | 2.1              |
| MOULD SHRINKAGE                                   | %                 | ISO-2577    | 0.2-0.5          |
| MECHANICAL PROPERTIES                             | UNIT              | TEST METHOD | VALUES           |
| TENSILE YIELD STRENGTH                            | MPa               | ISO-527     | 180              |
| STRAIN @ YIELD                                    | %                 | ISO-527     | 3.5              |
| TENSILE MODULUS                                   | MPa               | ISO-527     | 10000            |
| FLEXURAL STRENGTH                                 | MPa               | ISO-178     | 250              |
| FLEXURAL MODULUS                                  | MPa               | ISO-178     | 9000             |
| NOTCHED IZOD IMPACT STRENGTH +23°C                | Kj/m <sup>2</sup> | ISO-180     | 17               |
| ROCKWELL HARDNESS                                 |                   | R scale     | 113              |
| THERMAL PROPERTIES                                | UNIT              | TEST METHOD | VALUES           |
| HDT AT LOAD 1.8 Mpa                               | °C                | ISO-75      | 205              |
| HDT AT LOAD 0.45 Mpa                              | °C                | ISO-75      | 217              |
| UL FLAMMABILITY                                   |                   | UL-94       | H.B.             |
| MELTING POINT                                     | °C                | ISO-11357   | 218              |
| MAX TEMP CONTINUOUS USE                           | °C                |             | 110              |
| MAX TEMP SHORT<br>PEAKS OPERATION                 | °C                |             | 200              |
| ELECTRICAL PROPERTIES                             | UNIT              | TEST METHOD | VALUES           |
| SURFACE RESISTANCE                                | Ohm               | IEC 60093   | 10 <sup>12</sup> |
| VOLUME RESISTANCE                                 | Ohm x m           | IEC 60093   | 10 <sup>15</sup> |
| DIELECTRIC STRENGTH                               | kV/mm             | IEC 60250   | 80               |
| DIELECTRIC CONSTANT AT 1MHZ                       | kV/mm             | IEC 60250   | 3.8              |

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