

## Technical Specifications

|  | CONDITIONS       | TEST METHOD    | UNIT              | VALUE   |
|--|------------------|----------------|-------------------|---------|
| <b>1 - GENERAL CHARACTERISTICS</b>             |                  |                |                   |         |
| Density  | 23°C             | ISO 1183       | g/cm <sup>3</sup> | 1,19    |
| Water absorption (24H)                         | 23°C / 50% HR    | ISO 62         | %                 | 0,3     |
| Mould shrinkage                                |                  | ASTM D-955     | %                 | 0,2-0,6 |
| <b>2 - RHEOLOGICAL PROPERTIES</b>              |                  |                |                   |         |
| Melt Flow Index                                | 230°C / 3,8kg    | ISO 1133       | g/10mn            | 3,3     |
| <b>3 - MECHANICAL PROPERTIES</b>               |                  |                |                   |         |
| Tensile Strength at Yield                      | 23°C             | ISO 527-2      | MPa               | 60      |
| Elongation at Yield                            | 23°C             | ISO 527-2      | %                 | 5       |
| Tensile Strength at break                      | 23°C             | ISO 527-2      | MPa               | 60      |
| Elongation at Break                            | 23°C             | ISO 527-2      | %                 | 5       |
| Flexural Modulus                               | 23°C             | ISO 178        | MPa               | 2700    |
| Conventional Flexural Stress                   | 23°C             | ISO 178        | MPa               | 81      |
| Impact Resistance (Charpy, Unnotched)          | 23°C             | ISO 179-1eU    | KJ/m <sup>2</sup> | 18      |
| Impact Resistance (Charpy, Notched)            | 23°C             | ISO 179-1eA    | KJ/m <sup>2</sup> | 1       |
| Impact resistance (Izod, Notched)              | 23°C             | ISO 180        | KJ/m <sup>2</sup> | 1,8     |
| Rockwell Hardness                              | 23°C             | ASTM D-785     | HRM               | M-92    |
| <b>4 - OPTICAL PROPERTIES</b>                  |                  |                |                   |         |
| Light transmission                             | 23°C / 2mm thick | ASTM D1003     | %                 | 92      |
| Haze   | 23°C / 2mm thick | ASTM D1003     | %                 | 100     |
| Relative Diffusing Power (1 inches)            | 23°C / 2mm thick | Internal       | %                 | 53      |
| Relative Diffusing Power (2 inches)            | 23°C / 2mm thick | Internal       | %                 | 82      |
| Diffusion factor [ T(20°) + T(70°) / 2 T(5°) ] | 23°C / 2mm thick | Internal       | -                 | 0,28    |
| Half angle value (angle for 50% max. LT)       | 23°C / 2mm thick | Internal       | Degree            | 20      |
| Hiding power (LT% at 2° / LT% at 0°)           | 23°C / 2mm thick | Internal       | -                 | 0,99    |
| <b>5 - THERMAL PROPERTIES</b>                  |                  |                |                   |         |
| Vicat Softening Temperature                    | B 50 N           | ISO 306        | °C                | 99      |
| HDT (annealed 60°C/16h)                        | 1,82 Mpa         | ISO 75-2       | °C                | 91      |
| <b>6 - FLAMMABILITY</b>                        |                  |                |                   |         |
| Glow wire resistance (thickness 2,05mm)        |                  | IEC 60695-2-12 | °C                | >700    |
| Glow wire resistance (thickness 3,07mm)        |                  | IEC 60695-2-12 | °C                | >700    |
| Fire Resistant                                 |                  | UL/94          | CLASS             | HB      |

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