



creative thermoplastic compounds

RA320G6/RA321G6

Release Date: 05/12/2012

30% Glass Fiber Reinforced, Flame Retardant Polyamide 6.6 for Injection Moulding applications.

ISO

| PHYSICAL PROPERTIES | UNIT | TEST METHOD | VALUES |
|---------------------------------------------------|-------------------|-------------|------------------|
| DENSITY | g/cm ³ | ISO-1183 | 1.665 |
| WATER ABSORPTION (SATURATION) | % | ISO-62 | 4.5 |
| MOISTURE ABSORPTION 23° C, 50% RH (SATURATION) | % | ISO-62 | 1.5 |
| MOULD SHRINKAGE | % | ISO-2577 | 0.3-0.4 |
| MECHANICAL PROPERTIES | UNIT | TEST METHOD | VALUES |
| TENSILE YIELD STRENGTH | MPa | ISO-527 | >140 |
| STRAIN @ BREAK | % | ISO-527 | 2 |
| FLEXURAL STRENGTH | MPa | ISO-178 | >190 |
| FLEXURAL MODULUS | MPa | ISO-178 | >7500 |
| NOTCHED IZOD IMPACT STRENGTH +23°C | Kj/m ² | ISO-180 | >9 |
| THERMAL PROPERTIES | UNIT | TEST METHOD | VALUES |
| HDT AT LOAD 1.8 Mpa | °C | ISO-75 | 225 |
| HDT AT LOAD 0.45 Mpa | °C | ISO-75 | 238 |
| UL FLAMMABILITY | | UL-94 3mm | V-0 |
| MELTING POINT | °C | ISO-11357 | 256 |
| MAX TEMP CONTINUOUS USE | °C | | 115 |
| MAX TEMP SHORT PEAKS OPERATION | °C | | >200 |
| ELECTRICAL PROPERTIES | UNIT | TEST METHOD | VALUES |
| SURFACE RESISTANCE | Ohm | IEC 60093 | 10 ¹³ |
| VOLUME RESISTANCE | Ohm x m | IEC 60093 | 10 ¹⁵ |
| DIELECTRIC STRENGTH | kV/mm | IEC 60250 | 80 |
| DIELECTRIC CONSTANT AT 1MHZ | kV/mm | IEC 60250 | 3.7 |

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