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PTS-MARKETING

TECHNICAL INFORMATION

>PTS-CREAMID-A3H7G12.2S * 9217 e-schwarz PA teilaromatisch,60% GF,H-Stab

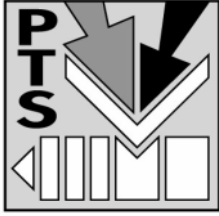
29.04.2014

| PROPERTIES | | UNIT | STANDARD | VALUES |
|--------------------------------|--------------------------|-------------------|-------------------|----------------------|
| PHYSICAL | | | | |
| Density | | g/cm ³ | ISO 1183 | 1,73 |
| Mould Shrinkage | (plate 61*61*2) [md/pmd] | % | ISO 294-4 | 0,2/0,4 |
| Water Absorption | (24 h) | % | ISO 62 | 0,3 |
| Water Absorption | (saturation) | % | ISO 62 | 2,3 |
| MECHANICAL | | | | |
| Izod-Impact Strength notched | +23/-30°C | kJ/m ² | ISO 180/A | 13 (13) |
| Charpy-Impact Strength notched | +23/-30°C | kJ/m ² | ISO 179-1/1eA | 13 (13) |
| Charpy-Impact Strength | +23/-30°C | kJ/m ² | ISO 179-1/1eU | 70/70 (70/70) |
| Tensile Yield Strength | (50mm/min) | MPa | ISO 527-1/-2 | 260 (245) |
| Tensile Modulus | (1mm/min) | MPa | ISO 527-1/-2 | 21000 (20000) |
| Elongation at Break | | % | ISO 527-1/-2 | 3,0 (3,0) |
| Flexural Strength | | MPa | ISO 178 | 350 (345) |
| Flexural Modulus | +23 °C | MPa | ISO 178 | 17000 (16000) |
| Flexural Modulus | +90 °C | MPa | ISO 178 | |
| THERMAL | | | | |
| VICAT Softening Temperature | 50°C/h 9,8 N | °C | ISO 306 | 250 |
| VICAT Softening Temperature | 50°C/h 49 N | °C | ISO 306 | 245 |
| HDT (Heat Distortion Temp.) | 0,45 MPa | °C | ISO 75-1/-2 | 255 |
| HDT (Heat Distortion Temp.) | 1,81 MPa | °C | ISO 75-1/-2 | 235 |
| Ball Indentation test | 125 °C | | DIN EN 60695-10-2 | |
| Ball Indentation test | 165 °C | | DIN EN 60695-10-2 | |
| Limit Temperature | after 20 000 h | °C | IEC 60216 | |
| ELECTRICAL | | | | |
| Tracking Index-CTI | Solution A/B | V | IEC 60112 | 600 |
| Dielectric Strength | (2 mm) | kV/mm | ASTM D149 | |
| FLAMMABILITY | | | | |
| UL94 | (0,8/1,6/3,2)mm | class | UL 94 | HB/HB/HB |
| Glow wire test 2mm | (550/650/750/850/960) °C | | DIN EN 60695-2-13 | |
| Oxygen Index LOI | | % | ISO 4589 | |

Values: dry: test bars "as molded" stored 24h, 23°C

Values(): cond.: ISO 291 / ISO 1110 or: with V-PTS-CREAMID/CREAMON before cross-linking

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PA teilaromatisch, 60% GF, H-Stab

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>PTS-CREAMID-A3H7G12.2S*9217 aesthetic black is a partially aromatic polyamide modified PA6.6 with 60% glass fibre reinforcement, ultra-flow properties, heat and uv-stabilized for applications requiring high thermal and mechanical load.

That grades shows high surface quality appearance combined with less warp. Conditioned this product has high mechanical properties and an excellent dimension stability.

The PTS development called "controlled crystallisation technology" enables a high quality surface in spite of a high glass fibre content.

Injection molding processing recommendations:

| | | |
|------------------------------------|---|-----------|
| melt temperature | : | 268°C |
| recommended processing temperature | : | 280-300°C |
| mold temperature | : | 80-120°C |

Pre-drying:

Under normal conditions the material is protected against humidity approximately half a year (multi-layer packaging).

Open bags or material which is too long on stock should be pre-dried 2-5 hours/80°C (dry air oven).

Maximum allowed humidity for processing: 0,12%.