

HOSTAFORM® C 9021 LS | POM | UV Resistant

Description

POM copolymer

Standard Injection molding type, UV-stabilized with UV-stabilizers.; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation.

Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm.

FMVSS = Federal Motor Vehicle Safety Standard (USA)

| Physical properties | Value | Unit | Test Standard |
|-----------------------------|-------------|------------------------|---------------|
| Density | 1410 | kg/m ³ | ISO 1183 |
| Melt volume rate (MVR) | 8 | cm ³ /10min | ISO 1133 |
| MVR test temperature | 190 | °C | ISO 1133 |
| MVR test load | 2.16 | kg | ISO 1133 |
| Mold shrinkage - parallel | 2 | % | ISO 294-4 |
| Mold shrinkage - normal | 1.8 | % | ISO 294-4 |
| Water absorption (23°C-sat) | 0.65 | % | ISO 62 |

| Mechanical properties | Value | Unit | Test Standard |
|--|---------------|-------------------|---------------|
| Tensile modulus (1mm/min) | 2850 | MPa | ISO 527-2/1A |
| Tensile stress at yield (50mm/min) | 64 | MPa | ISO 527-2/1A |
| Tensile strain at yield (50mm/min) | 9 | % | ISO 527-2/1A |
| Nominal strain at break (50mm/min) | 30 | % | ISO 527-2/1A |
| Tensile creep modulus (1h) | 2500 | MPa | ISO 899-1 |
| Tensile creep modulus (1000h) | 1300 | MPa | ISO 899-1 |
| Charpy impact strength @ 23°C | 180.0P | kJ/m ² | ISO 179/1eU |
| Charpy impact strength @ -30°C | 160.0 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength @ 23°C | 6.5 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength @ -30°C | 6 | kJ/m ² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|---|------------|--------|-------------------|
| Melting temperature (10°C/min) | 166 | °C | ISO 11357-1,-2,-3 |
| DTUL @ 1.8 MPa | 104 | °C | ISO 75-1/-2 |
| Coeff.of linear therm. expansion (parallel) | 1.1 | E-4/°C | ISO 11359-2 |

| Electrical properties | Value | Unit | Test Standard |
|--------------------------------|-------------|-------|---------------|
| Relative permittivity - 100 Hz | 4 | - | IEC 60250 |
| Relative permittivity - 1 MHz | 4 | - | IEC 60250 |
| Dissipation factor - 100 Hz | 20 | E-4 | IEC 60250 |
| Dissipation factor - 1 MHz | 50 | E-4 | IEC 60250 |
| Volume resistivity | 1E12 | Ohm*m | IEC 60093 |
| Surface resistivity | 1E14 | Ohm | IEC 60093 |
| Electric strength | 35 | kV/mm | IEC 60243-1 |
| Comparative tracking index CTI | 600 | - | IEC 60112 |

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| Test specimen production | Value | Unit | Test Standard |
|--------------------------------|-------|------|---------------|
| Processing conditions acc. ISO | 9988 | - | Internal |

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General Disclaimer

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Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use.

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