

HOSTAFORM® S 9244 XAP²™ | POM | Impact Modified
Description

POM copolymer, modified

Injection molding type, elastomer-containing; with higher impact strength and slightly lower hardness, rigidity and chemical resistance than the basic type HOSTAFORM C 9021
 Reduced emission grade, Emission according to VDA 275 < 5 mg/kg
 good weld strength.

Preliminary Datasheet

| Physical properties | Value | Unit | Test Standard |
|-----------------------------|-------------|------------------------|---------------|
| Density | 1260 | kg/m ³ | ISO 1183 |
| Melt volume rate (MVR) | 1.4 | cm ³ /10min | ISO 1133 |
| MVR test temperature | 190 | °C | ISO 1133 |
| MVR test load | 2.16 | kg | ISO 1133 |
| Mold shrinkage - parallel | 1.7 | % | ISO 294-4 |
| Mold shrinkage - normal | 1.6 | % | ISO 294-4 |
| Water absorption (23°C-sat) | 1.2 | % | ISO 62 |

| Mechanical properties | Value | Unit | Test Standard |
|--|---------------|-------------------|---------------|
| Tensile modulus (1mm/min) | 1450 | MPa | ISO 527-2/1A |
| Tensile stress at yield (50mm/min) | 33 | MPa | ISO 527-2/1A |
| Tensile strain at yield (50mm/min) | 7 | % | ISO 527-2/1A |
| Nominal strain at break (50mm/min) | >50 | % | ISO 527-2/1A |
| Tensile creep modulus (1h) | 1200 | MPa | ISO 899-1 |
| Tensile creep modulus (1000h) | 650 | MPa | ISO 899-1 |
| Flexural modulus (23°C) | 1450 | MPa | ISO 178 |
| Charpy impact strength @ 23°C | NB | kJ/m ² | ISO 179/1eU |
| Charpy impact strength @ -30°C | 200.OP | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength @ 23°C | 18.0 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength @ -30°C | 12.0 | 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 | 68 | °C | ISO 75-1/-2 |
| Coeff.of linear therm. expansion (parallel) | 1.3 | E-4/°C | ISO 11359-2 |

| Electrical properties | Value | Unit | Test Standard |
|--------------------------------|-------------|-------|---------------|
| Relative permittivity - 100 Hz | 3.6 | - | IEC 60250 |
| Relative permittivity - 1 MHz | 3.6 | - | IEC 60250 |
| Dissipation factor - 100 Hz | 40 | E-4 | IEC 60250 |
| Dissipation factor - 1 MHz | 60 | E-4 | IEC 60250 |
| Volume resistivity | 1E11 | Ohm*m | IEC 60093 |
| Surface resistivity | 1E13 | Ohm | IEC 60093 |
| Comparative tracking index CTI | 600 | - | IEC 60112 |

| Test specimen production | Value | Unit | Test Standard |
|--------------------------|-------|------|---------------|
|--------------------------|-------|------|---------------|

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| Test specimen production | Value | Unit | Test Standard |
|--------------------------------|--------|------|---------------|
| Processing conditions acc. ISO | 9988-2 | - | Internal |

Contact Information

Americas

8040 Dixie Highway, Florence, KY 41042 USA

Product Information Service

t: +1-800-833-4882 t: +1-859-372-3244

Customer Service

t: +1-800-526-4960 t: +1-859-372-3214

e: info-engineeredmaterials-am@celanese.com

Asia

4560 Jinke Road, Zhang Jiang Hi Tech Park

Shanghai 201203 PRC

Customer Service

t: +86 21 3861 9266 f: +86 21 3861 9599

e: info-engineeredmaterials-asia@celanese.com

Europa

Am Unisys-Park 1, 65843 Sulzbach, Germany

Product Information Service

t: +(00)-800-86427-531 t: +49-(0)-69-45009-1011

e: info-engineeredmaterials-eu@celanese.co

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