

## HOSTAFORM® S 27072 WS 10/1570 | POM | Impact Modified

### Description

Chemical abbreviation according to ISO 1043-1: POM-HI  
Molding compound ISO 9988- POM-K, M-GCLP, 05-001

Modifiziertes POM Copolymer

Easy flowing, elastomer-containing injection molding type in color modifying black 10/1570; especially weathering resistant; lower chemical resistance than the basic type HOSTAFORM C 27021; high resistance to thermal and oxidative degradation.

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

Ranges of applications: for molded parts with matt surface.

FMVSS = Federal Motor Vehicle Safety Standard (USA)

Physical properties	Value	Unit	Test Standard
Density	<b>1390</b>	kg/m <sup>3</sup>	ISO 1183
Melt volume rate (MVR)	<b>21</b>	cm <sup>3</sup> /10min	ISO 1133
MVR test temperature	<b>190</b>	°C	ISO 1133
MVR test load	<b>2.16</b>	kg	ISO 1133
Water absorption (23°C-sat)	<b>0.7</b>	%	ISO 62

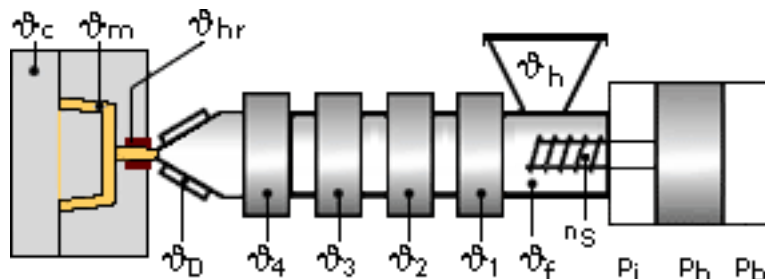
Mechanical properties	Value	Unit	Test Standard
Tensile modulus (1mm/min)	<b>2000</b>	MPa	ISO 527-2/1A
Tensile stress at yield (50mm/min)	<b>46</b>	MPa	ISO 527-2/1A
Tensile strain at yield (50mm/min)	<b>8</b>	%	ISO 527-2/1A
Nominal strain at break (50mm/min)	<b>35</b>	%	ISO 527-2/1A
Tensile creep modulus (1h)	<b>1800</b>	MPa	ISO 899-1
Tensile creep modulus (1000h)	<b>1000</b>	MPa	ISO 899-1
Flexural modulus (23°C)	<b>2100</b>	MPa	ISO 178
Charpy impact strength @ 23°C	<b>150P</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength @ -30°C	<b>110</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength @ 23°C	<b>11</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength @ -30°C	<b>8</b>	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	<b>166</b>	°C	ISO 11357-1,-2,-3
DTUL @ 1.8 MPa	<b>84</b>	°C	ISO 75-1/-2
Coeff.of linear therm. expansion (parallel)	<b>1.2</b>	E-4/°C	ISO 11359-2

Test specimen production	Value	Unit	Test Standard
Processing conditions acc. ISO	<b>9988</b>	-	Internal

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**Typical injection moulding processing conditions**



**Pre Drying:**

**Drying time: 3 - 4 h**

**Drying temperature: 100 - 120 °C**

**Temperature:**

	$\varnothing_{\text{Manifold}}$	$\varnothing_{\text{Mold}}$	$\varnothing_{\text{Melt}}$	$\varnothing_{\text{Nozzle}}$	$\varnothing_{\text{Zone4}}$	$\varnothing_{\text{Zone3}}$	$\varnothing_{\text{Zone2}}$	$\varnothing_{\text{Zone1}}$	$\varnothing_{\text{Feed}}$	$\varnothing_{\text{Hopper}}$
min (°C)	190	60	190	190	190	190	180	170	60	20
max (°C)	200	70	200	200	200	200	190	180	80	30

**Pressure:**

	Inj press	Hold press	Back pressure
min (bar)	600	600	0
max (bar)	1200	1200	5

**Speed:**

**Injection speed: slow**

**Contact Information**

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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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