

# HOSTAFORM® S 9364 WS 10/1570

## HOSTAFORM®

Hostaform® acetal copolymer grade S 9364 WS 10/1570 is a highly impact modified grade for demanding applications that also need improved resistance to UV exposure. Besides weatherability, Hostaform® S 9364 WS 10/1570 provides a significant improvement in impact strength and flexibility over standard impact modified grades. This grade is only available in black. Chemical abbreviation according to ISO 1043-1: POM-HI

### Product information

Resin Identification	POM-I	ISO 1043
Part Marking Code	>POM-I<	ISO 11469

### Rheological properties

Melt volume-flow rate	4.5 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	

### Typical mechanical properties

Tensile modulus	1500 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	41 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	20 %	ISO 527-1/-2
Flexural modulus	1400 MPa	ISO 178
Flexural stress at 3.5%	37 MPa	ISO 178
Charpy notched impact strength, 23 °C	16 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30 °C	7 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.43 <sup>[C]</sup>	

[C]: Calculated

### Thermal properties

Melting temperature, 10 °C/min	165 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	75 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	120 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	110 E-6/K	ISO 11359-1/-2

### Physical/Other properties

Humidity absorption, 2mm	0.25 %	Sim. to ISO 62
Water absorption, 2mm	0.8 %	Sim. to ISO 62
Density	1370 kg/m <sup>3</sup>	ISO 1183

### Injection

Drying Recommended	no
Drying Temperature	100 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	≤0.2 %
Melt Temperature Optimum	190 °C
Min. melt temperature	180 °C
Max. melt temperature	200 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	65 °C

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Min. mould temperature	60 °C
Max. mould temperature	70 °C
Hold pressure range	60 - 120 MPa
Back pressure	2 MPa

### Characteristics

Processing	Injection Moulding, Extrusion
Delivery form	Pellets
Additives	Release agent
Special characteristics	High impact or impact modified, U.V. stabilised or stable to weather

### Additional information

#### Processing Notes

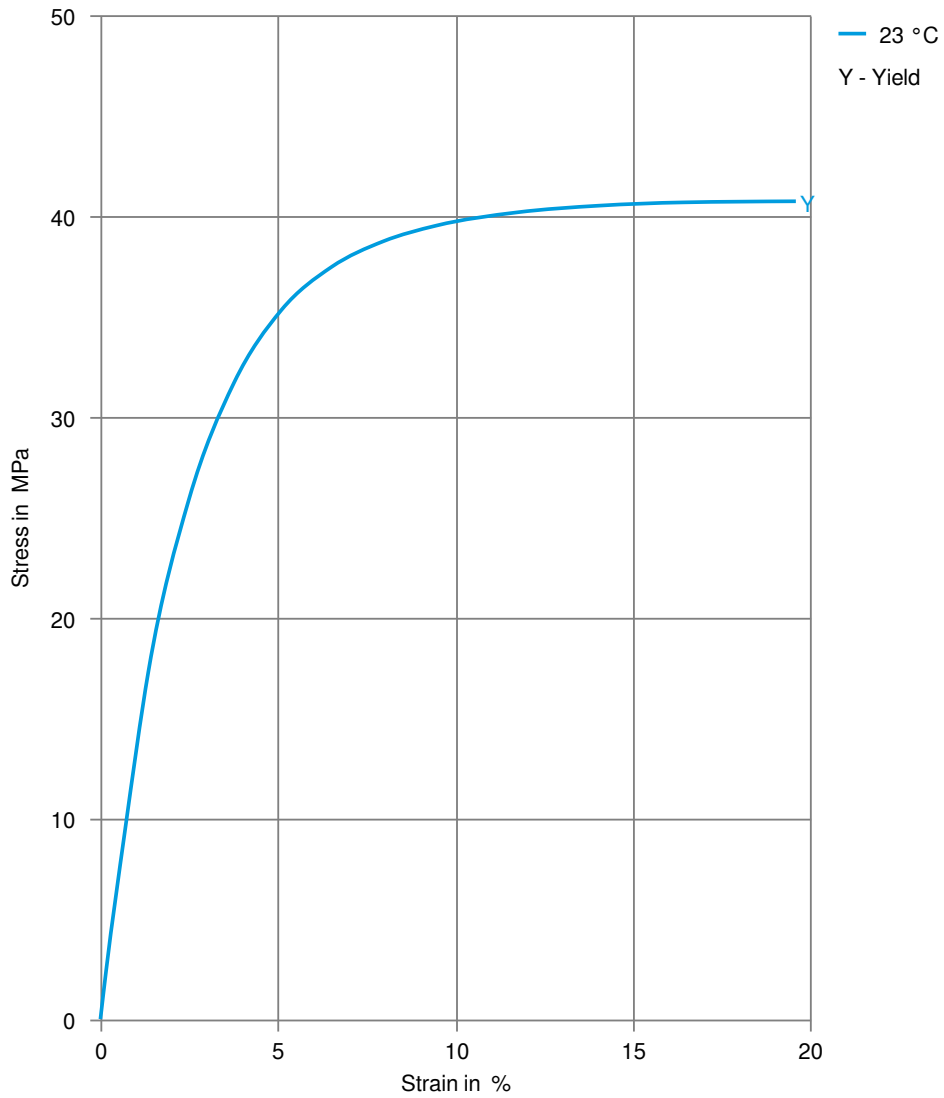
#### Pre-Drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying to prevent splay and odor problems.

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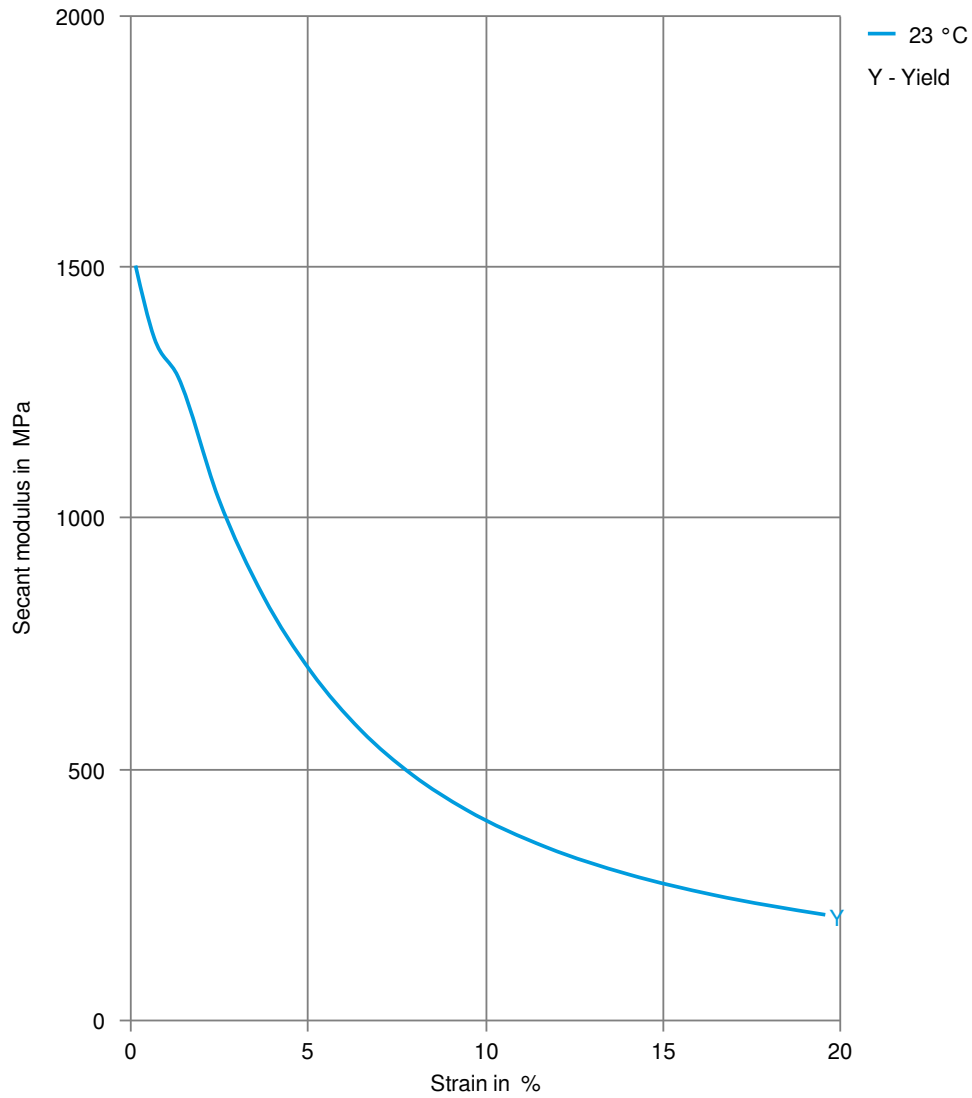
## Stress-strain



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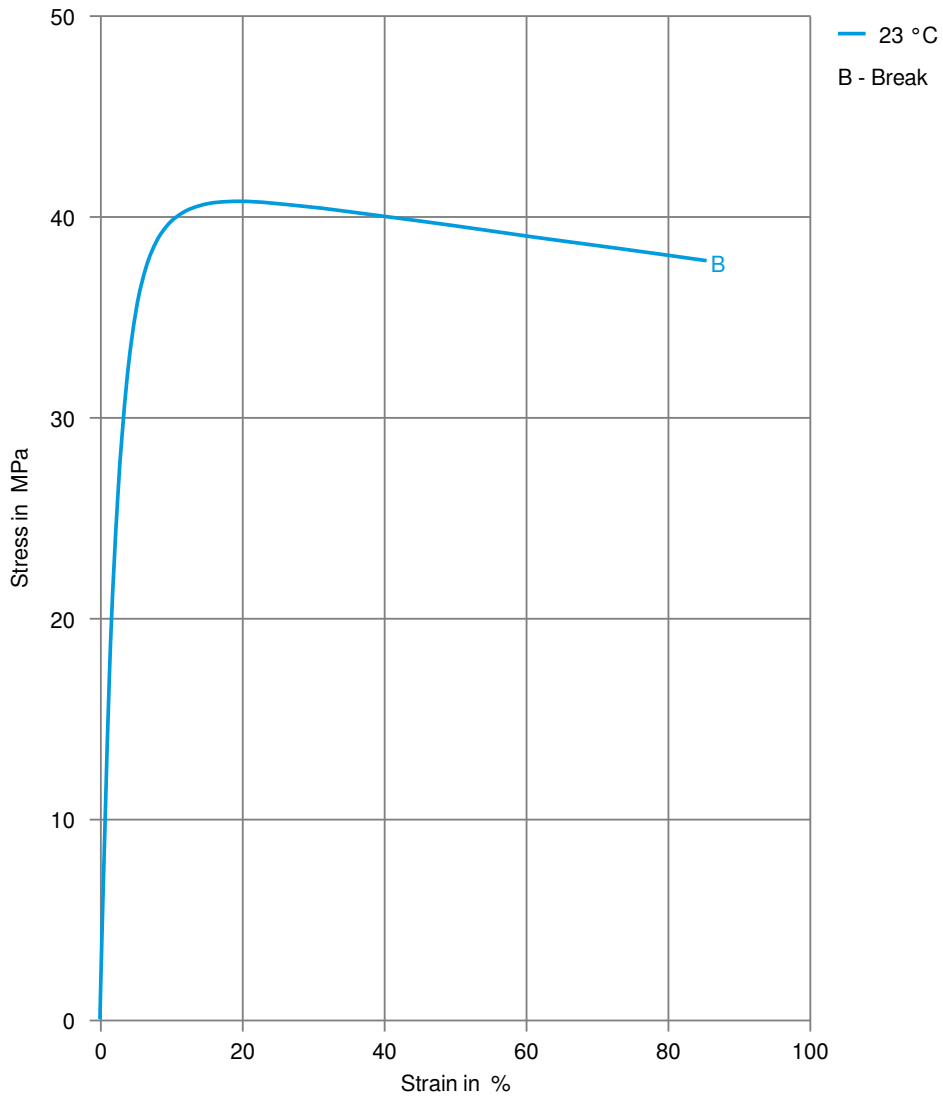
## Secant modulus-strain



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## Stress-strain, 50mm/min



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Secant modulus-strain, 50mm/min

