

# HOSTAFORM® MR130AR

## HOSTAFORM®

POM, Media Resistant

Hostaform® MR130AR is an acetal copolymer.

This material is modified to have delayed deterioration against highly acidic solutions, including automotive wheel cleaner solutions.

It may have a longer delay of deterioration against acidic solutions compared with Hostaform® MR130ACS.

In natural form, this material has a tan to yellow hue.

### Product information

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

### Rheological properties

Melt volume-flow rate	15 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage range, parallel	2 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.9 %	ISO 294-4, 2577

### Typical mechanical properties

Tensile modulus	3150 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	59 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	11 %	ISO 527-1/-2
Charpy notched impact strength, 23 °C	7 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30 °C	6.5 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.411	

### Thermal properties

Melting temperature, 10 °C/min	171 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	95 °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	120 E-6/K	ISO 11359-1/-2

### Physical/Other properties

Water absorption, 2mm	0.6 %	Sim. to ISO 62
Density	1450 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	105 °C

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Min. mould temperature	90 °C
Max. mould temperature	120 °C
Hold pressure range	60 - 120 MPa
Back pressure	4 MPa
Ejection temperature	134 °C

### Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	Chemical resistant

### Additional information

#### Processing Notes

#### Pre-Drying

Pre-drying is required.

### Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
General Motors	GMW18052P-POM	Natural Material Without UV or Weathering Stabilizers
Stellantis	MS.50095 / POM-C.2900F.8I.AR	CPN5310 NATURAL; Full approval granted
Stellantis - Chrysler	MS.50095 / CPN-5310	Natural; Full approval granted