

# HOSTAFORM® XT 90

Highly impact modified, improved weld line

Hostaform® acetal copolymer grade XT 90 is a highly impact modified grade for demanding applications. Hostaform® XT 90 provides exceptional impact strength and flexibility over standard impact modified acetal copolymer grades. Chemical abbreviation according to ISO 1043-1: POM-HI

## Rheological properties

Melt volume-flow rate	2 cm <sup>3</sup> /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	1.2 %	ISO 294-4, 2577
Moulding shrinkage, normal	1.1 %	ISO 294-4, 2577

## Typical mechanical properties

Tensile Modulus	950 MPa	ISO 527-1/-2
Yield stress, 50mm/min	30 MPa	ISO 527-1/-2
Yield strain, 50mm/min	25 %	ISO 527-1/-2
Flexural Modulus	950 MPa	ISO 178
Flexural Stress at 3.5%	25 MPa	ISO 178
Shear Modulus	354 MPa	ISO 6721
Charpy impact strength, 23°C	NB kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	NB kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	100 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	15 kJ/m <sup>2</sup>	ISO 179/1eA
Shore D hardness, 15s	69	ISO 48-4 / ISO 868

## Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	60 °C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	115 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	100 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	120 E-6/K	ISO 11359-1/-2

## Other properties

Humidity absorption, 2mm	0.25 %	Sim. to ISO 62
Water absorption, 2mm	0.8 %	Sim. to ISO 62
Density	1320 kg/m <sup>3</sup>	ISO 1183

## Injection

Drying Temperature	100 - 120 °C	
Drying Time, Dehumidified Dryer	3 - 4 h	
Melt Temperature Optimum	200 °C	Internal
Max. mould temperature	60 - 80 °C	
Back pressure	2 MPa	

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Injection speed

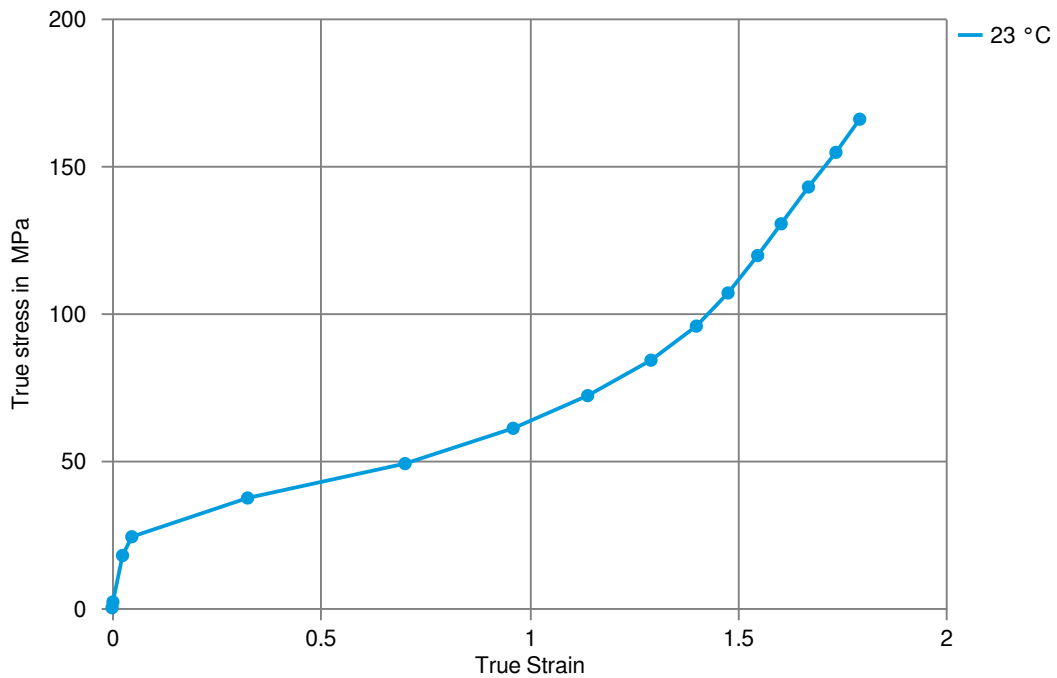
slow

## Characteristics

Additives

Release agent

## True stress-strain



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## Processing Texts

Pre-drying

Drying is suggested specially if material has come in contact with moisture through storage, handling or regrind use. Dry to prevent splay and odor problems.

## Other Approvals

Other Approvals

OEM	Specification
Stellantis - FCA Group	POM 60.100

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