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HOSTAFORM® UV270Z XAP®2

HOSTAFORM®

Hostaform® acetal copolymer grade UV270Z XAP®2 is a UV stabilized material available in a range of colors especially for automotive interior applications. In addition, Hostaform® UV270 XAP®2 has lower emissions as required for some automotive interiors. Low Emission Performance [VDA-275]

Product information

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

Rheological properties

Melt volume-flow rate	24	cm^3/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	2.1	%	ISO 294-4, 2577
Moulding shrinkage, normal	2.0	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	2650	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	65	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	8	%	ISO 527-1/-2
Flexural modulus	2600	MPa	ISO 178
Charpy impact strength, 23°C	120	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23°C	5	kJ/m^2	ISO 179/1eA
Charpy notched impact strength, -30°C	4.5	kJ/m^2	ISO 179/1eA
Izod notched impact strength, 23°C	5.4	kJ/m^2	ISO 180/1A
Poisson's ratio	0.38[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	167	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	95	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	155	°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

Electrical properties

Surface resistivity	1.3E16	Ohm	IEC 62631-3-2
Arc Resistance	240	s	UL 746B

Physical/Other properties

Density	1400	kg/m^3	ISO 1183

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Injection

Drying Recommended	no	
Drying Temperature	100	°C
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	200	°C
Min. melt temperature	190	°C
Max. melt temperature	210	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	80	°C
Max. mould temperature	120	°C
Hold pressure range	60 - 120	MPa
Back pressure	4	MPa

Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	U.V. stabilised or stable to weather, High Flow, Low emissions

Additional information

Processing Notes

Pre-Drying

Drying is recommended to obtain optimum emission performance. If material contacts moisture through improper storage or handling, drying may be necessary to prevent splay and odor issues.

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
General Motors	GMW16924P-POM-C4	Natural
Great Wall Motor	MP05-01	Colors
Stellantis - Chrysler	MS.50095 / CPN-3905	100% Color Match
VW Group	TL 524 76	Colors

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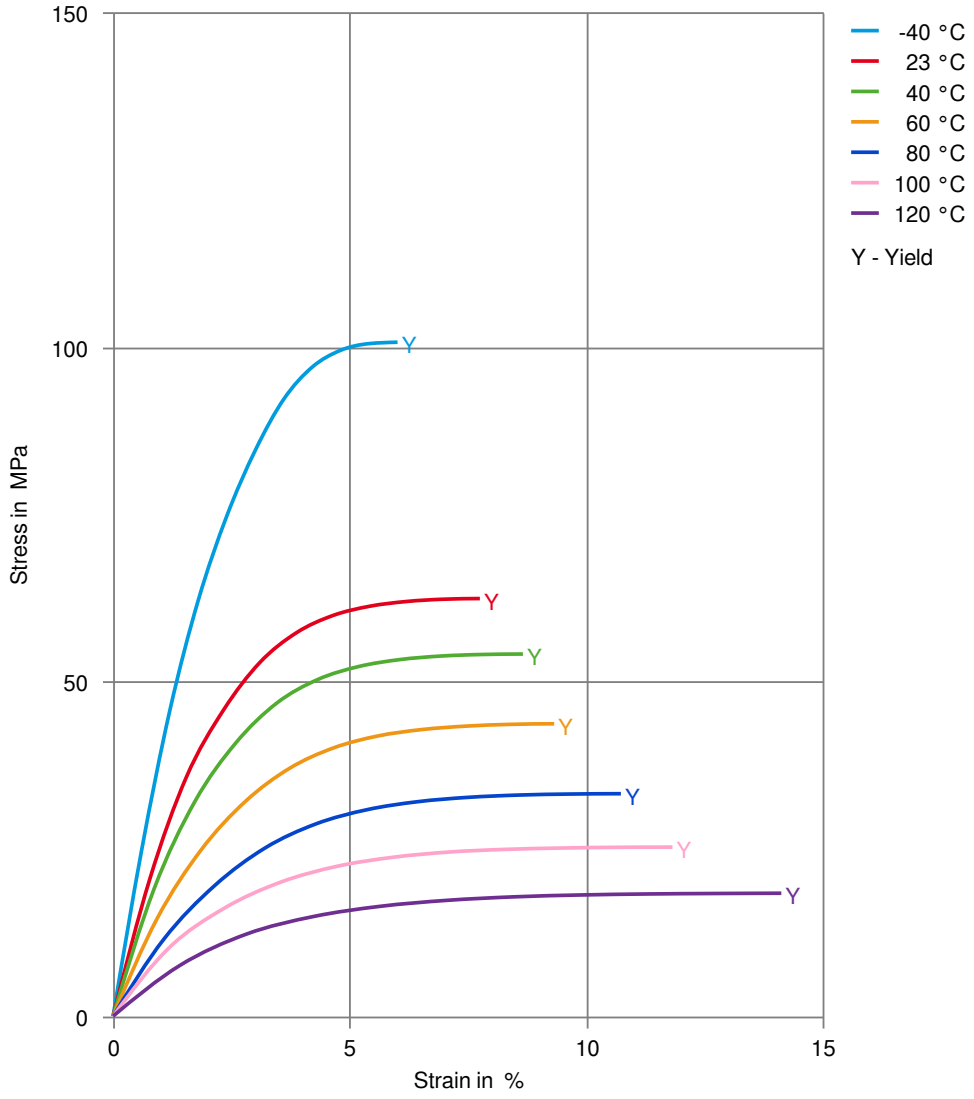
Stress-strain



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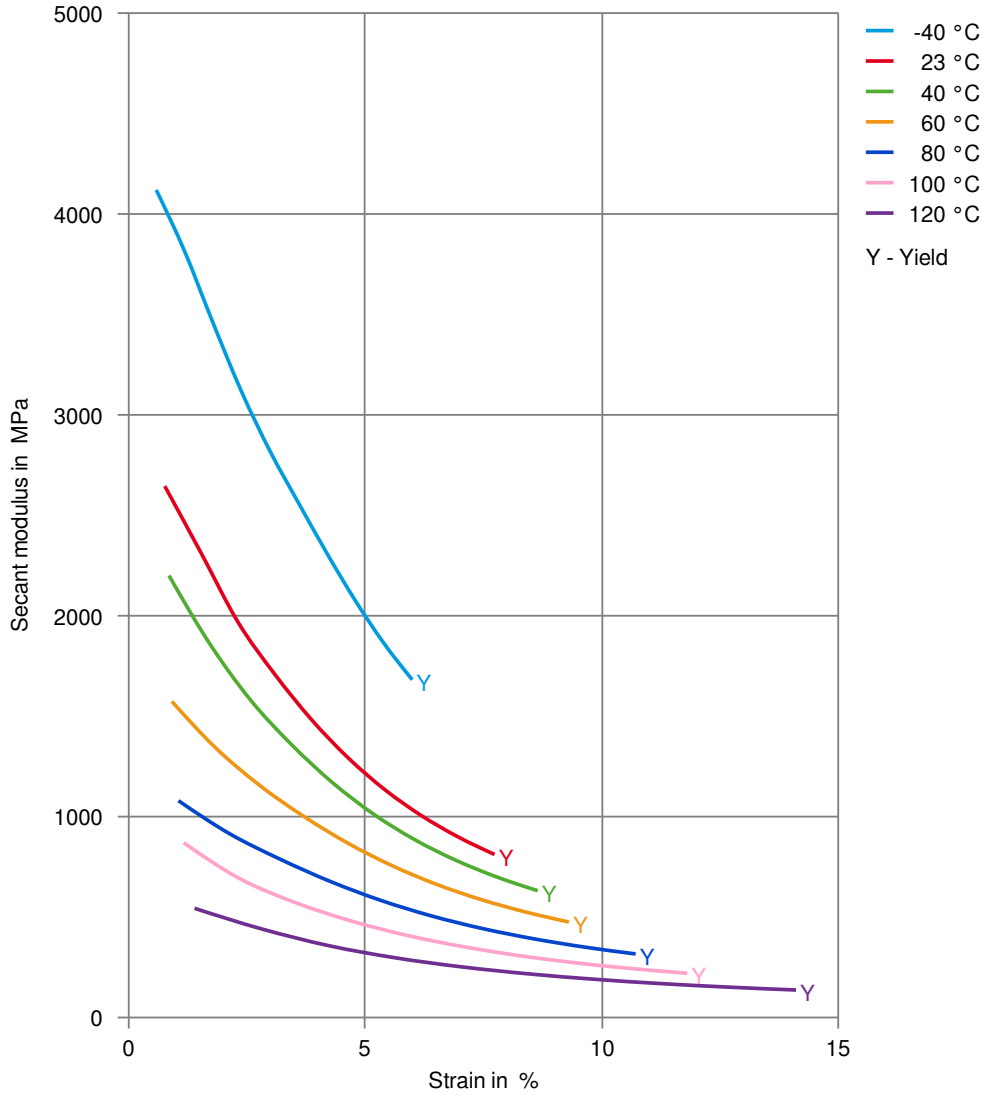
Secant modulus-strain



Revised: 2024-07-08 Source: Celanese Materials Database