HOSTAFORM® S 27072 WS 10/1570

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Chemical abbreviation according to ISO 1043-1: POM-HI Molding compound ISO 29988- POM-K, M-GCLP, 05-001 Modified POM copolymer Easy flowing, elastomer-containing injection molding type in black color with high carbon content; especially weathering resistant; lower chemical resistance than unmodified acetal copolymer; 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)

Product information

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

Rheological properties

Melt volume-flow rate	21	cm^3/10min	ISO 1133
Temperature	374	°F	
Load	4.76	lb	
Molding shrinkage, parallel	1.8[1]	%	ISO 294-4, 2577
Molding shrinkage, normal	1.9[1]	%	ISO 294-4, 2577

[1]: @ 195°C

Typical mechanical properties

Tensile modulus	290000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	6700	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	8	%	ISO 527-1/-2
Nominal strain at break	35	%	ISO 527-1/-2
Flexural modulus	305000	psi	ISO 178
Tensile creep modulus, 1h	261000	psi	ISO 899-1
Tensile creep modulus, 1000h	145000	psi	ISO 899-1
Charpy impact strength, 23°C	71.4[P]	$ftlb/in^2$	ISO 179/1eU
Charpy impact strength, -30°C	52.3	$ftlb/in^2$	ISO 179/1eU
Charpy notched impact strength, 23°C	5.23	$ftlb/in^2$	ISO 179/1eA
Charpy notched impact strength, -30°C	3.81	$ftlb/in^2$	ISO 179/1eA
Puncture energy, 23°C	10	J	ISO 6603-2
Ball indentation hardness, H 358/30	16700	psi	ISO 2039-1

[P]: Partial Break

Thermal properties

Melting temperature, 10°C/min	331	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	183	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.67	E-4/°F	ISO 11359-1/-2

Physical/Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Water absorption, 2mm	0.7	%	Sim. to ISO 62
Density	0.0502	lb/in^3	ISO 1183

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Injection

Drying Recommended	no	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	392	°F
Min. melt temperature	374	°F
Max. melt temperature	410	°F
Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	149	°F
Min. mold temperature	140	°F
Max. mold temperature	158	°F
Hold pressure range	8700 - 17400	psi
Hold Pressure Time (h is the max. wall thickness of the part in mm)	$2h^2$-3	s
Back pressure	290	psi

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Continental	TST N 055 54.17	
Li Auto	Q/LiA5310020	2021 (V2)

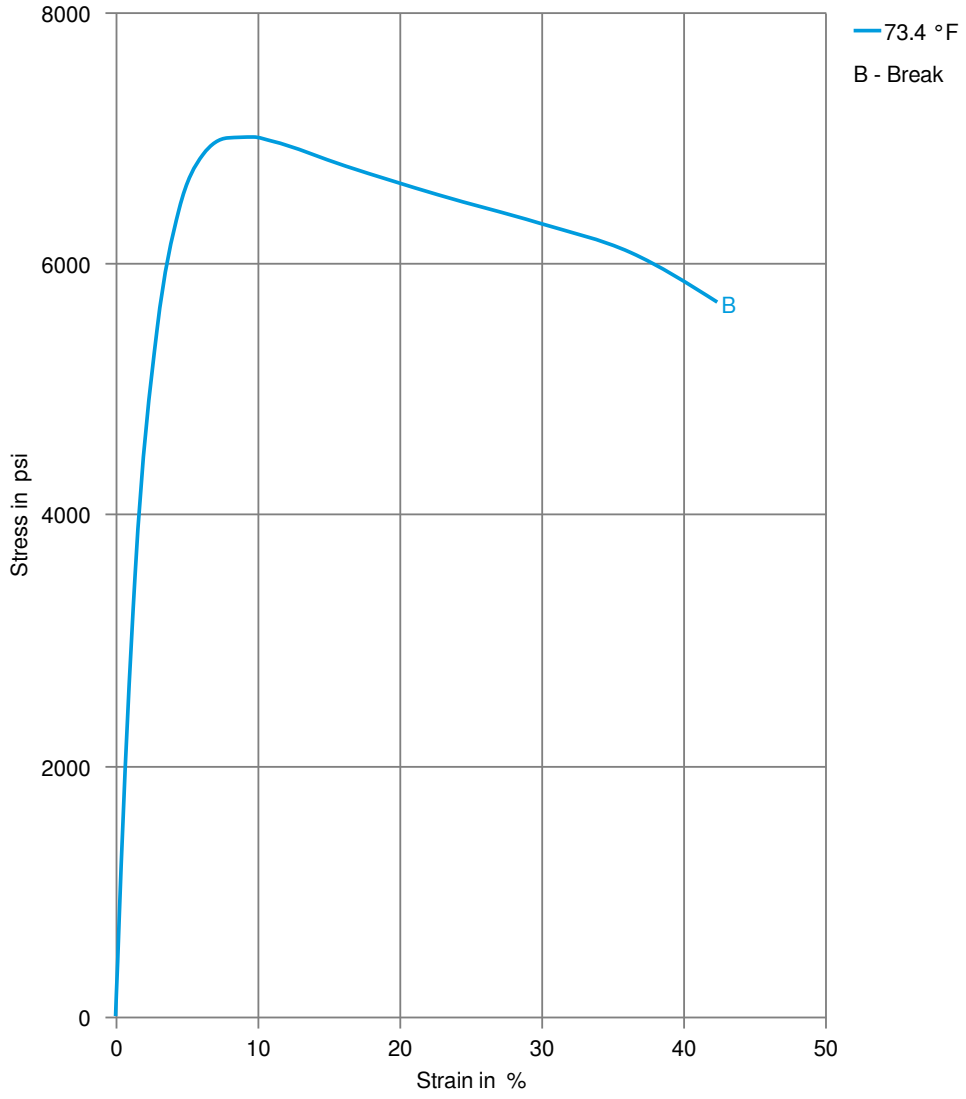
Characteristics

Processing	Injection Molding
Additives	Release agent
Special characteristics	High impact or impact modified, Light stabilized or stable to light, U.V. stabilized or stable to weather, High Flow

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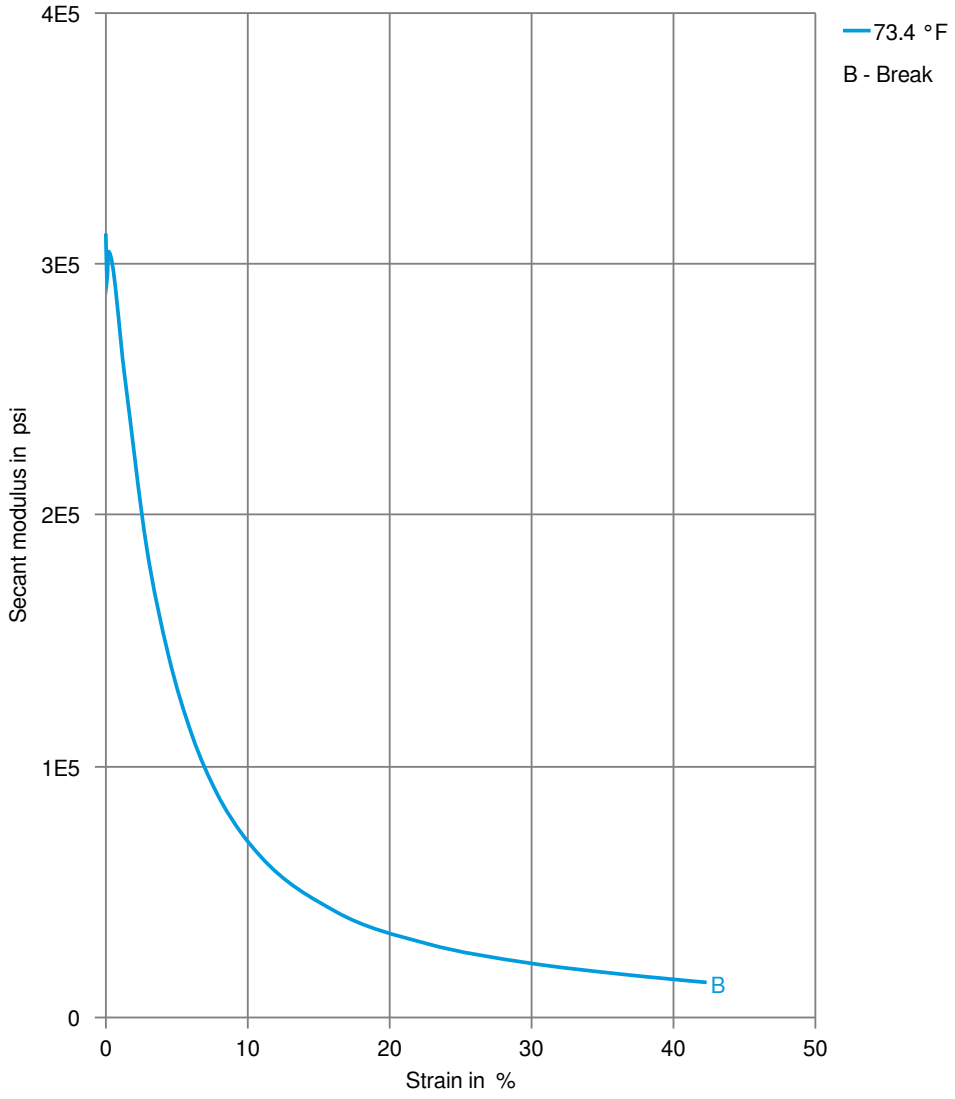
Stress-strain



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Secant modulus-strain



Revised: 2025-07-21 Source: Celanese Materials Database

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