HOSTAFORM® LW15EWX

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Hostaform® LW15EWX is a specialty low wear grade of acetal copolymer designed for improved performance including when paired against other thermoplastic resins (PBT, PA, PC, PMMA) or steel. Due to the special wax blend the material has a good weld line strength. Compared to Hostaform® LW90EWX, this grade has higher toughness and strength.

Product information

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

Rheological properties

Melt volume-flow rate	2.5	cm^3/10min	ISO 1133
Temperature	374	°F	
Load	4.76	lb	

Typical mechanical properties

Tensile modulus	384000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	9100	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	19	%	ISO 527-1/-2
Nominal strain at break	32	%	ISO 527-1/-2
Charpy notched impact strength, 23°C	6.66	ftlb/in^2	ISO 179/1eA
Charpy notched impact strength, -30°C	5.23	ftlb/in^2	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	343	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	199	°F	ISO 75-1/-2

Physical/Other properties

Density	0.0505	lb/in^3	ISO 1183

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	221	°F
Min. mold temperature	194	°F
Max. mold temperature	248	°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	580	psi

Revised: 2024-07-17 Source: Celanese Materials Database

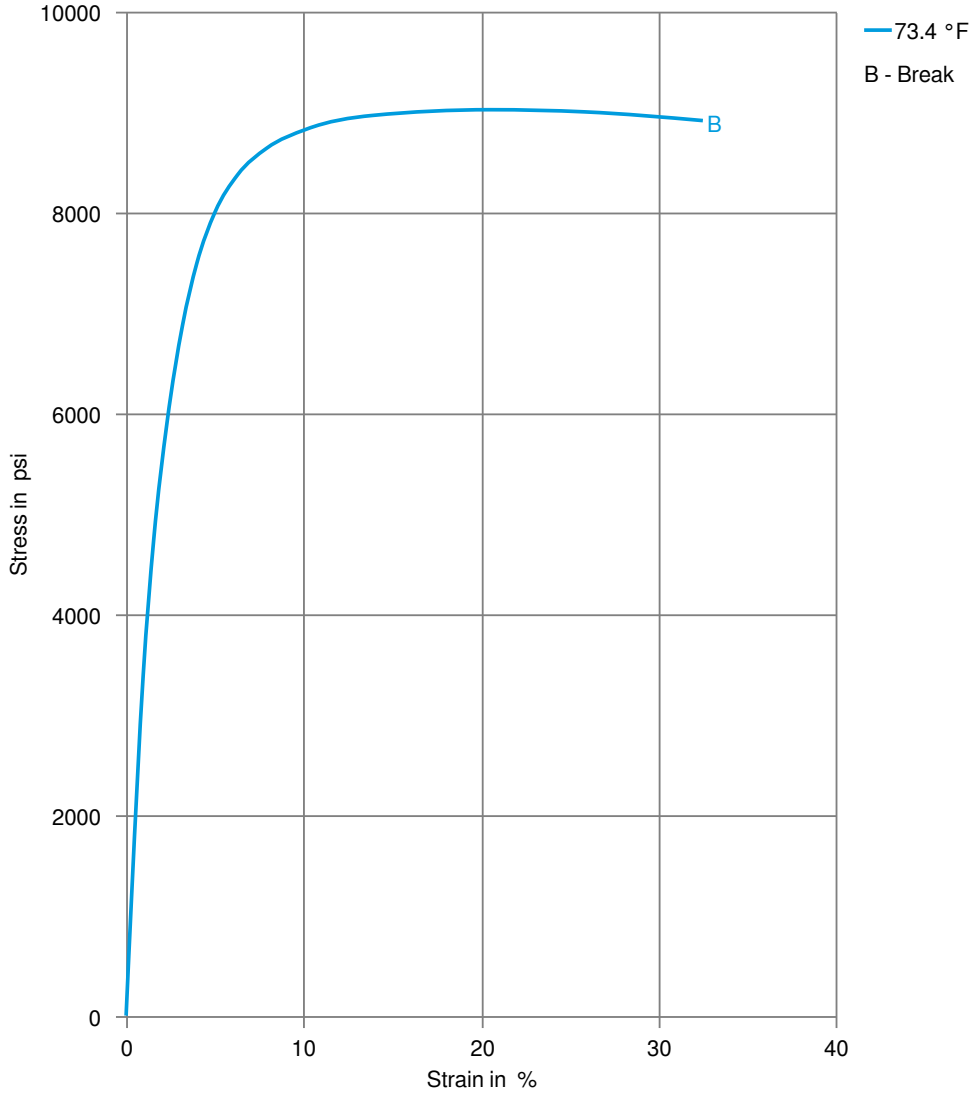
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Characteristics

Processing	Injection Molding
Additives	Release agent
Special characteristics	Low wear / Low friction

Stress-strain

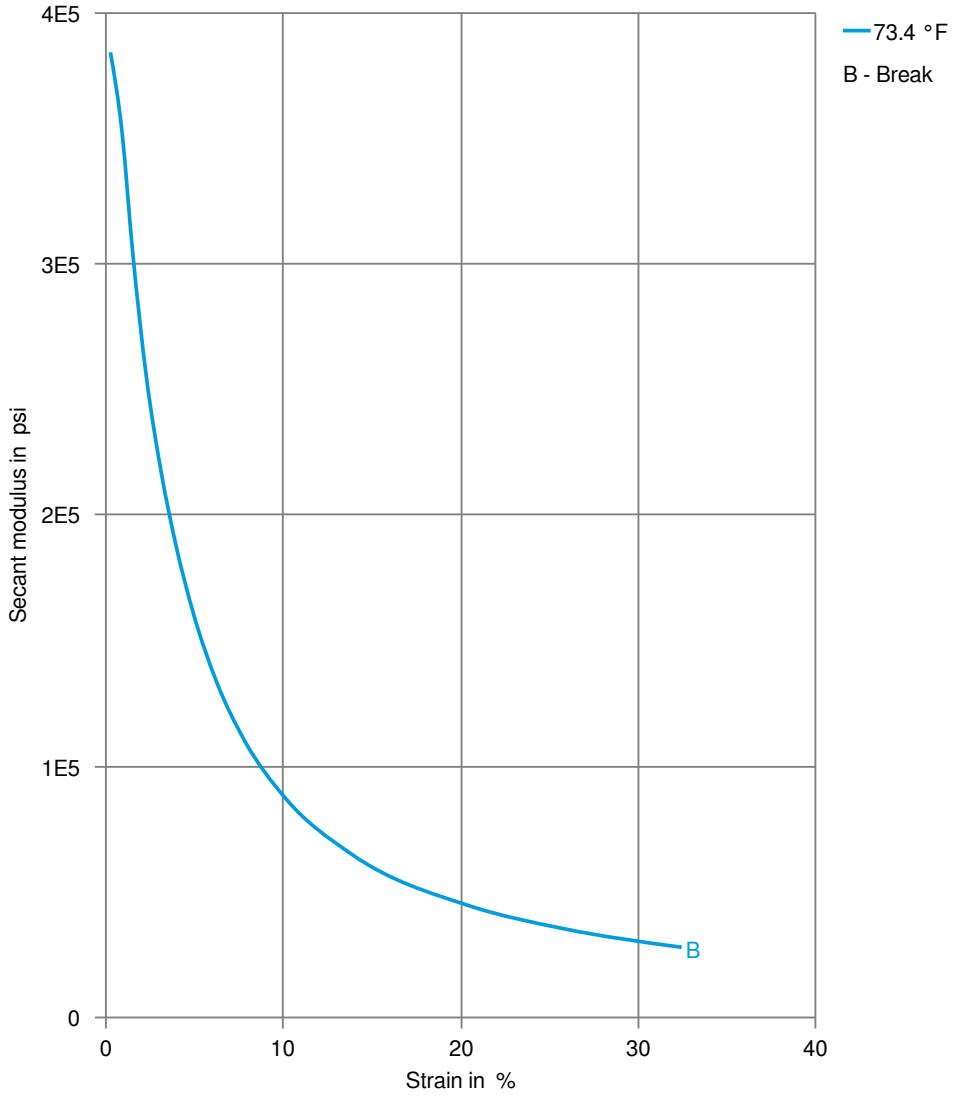


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Secant modulus-strain



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