

HOSTAFORM®

Hostaform® acetal copolymer grade M15HP is a high viscosity polymer providing optimum performance in injection molding. This grade provides overall excellent performance in applications requiring high stiffness.

Product information			
Resin Identification Part Marking Code	POM >POM<		ISO 1043 ISO 11469
Rheological properties			
Melt volume-flow rate		cm ³ /10min	ISO 1133
Temperature Load	190 2.16		
Melt mass-flow rate		g/10min	ISO 1133
Melt mass-flow rate, Temperature	190		
Melt mass-flow rate, Load	2.16	-	
Moulding shrinkage, parallel	2.6 2.0		ISO 294-4, 2577 ISO 294-4, 2577
Moulding shrinkage, normal	2.0	70	150 294-4, 2377
Typical mechanical properties			
Tensile modulus	2700	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min		MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	20		ISO 527-1/-2
Flexural modulus Compressive stress at 1% strain	2500	MPa MPa	ISO 178 ISO 604
Charpy impact strength, 23°C		kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C		kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C		kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	8.5	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C		kJ/m²	ISO 180/1A
Hardness, Rockwell, M-scale	84		ISO 2039-2
Poisson's ratio	0.38 ^[C]		
[C]: Calculated			
Thermal properties			
Melting temperature, 10°C/min	173		ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	101	-	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	158		ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	130	E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE),	120	E-6/K	ISO 11359-1/-2
normal			
Physical/Other properties			
Humidity absorption, 2mm	0.2		Sim. to ISO 62
Water absorption, 2mm	0.75		Sim. to ISO 62
Density	1410	kg/m³	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	105 °C
Min. mould temperature	90 °C
Max. mould temperature	120 °C
Hold pressure range	60 - 120 MPa
Back pressure	4 MPa

Characteristics

Processing	Injection Moulding, Film Extrusion, Extrusion, Other Extrusion, Blow Moulding, Calendering
Delivery form	Pellets
Additives	Release agent
Additional information	
Processing Notes	Pre-Drying
	Drying is not normally required. If material has come in contact with moisture

necessary to prevent splay and odor problems.

Automotive

OEM
Continental
General Motors
General Motors

STANDARD TST N 055 54.40 GMW22P-POM-C1 GMW22P-POM-C1 ADDITIONAL INFORMATION (TST N 055 54.40-001) Black Natural

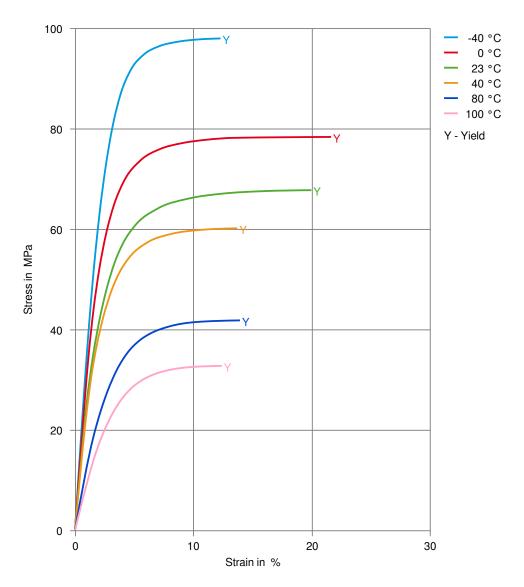
through improper storage or handling or through regrind use, drying may be





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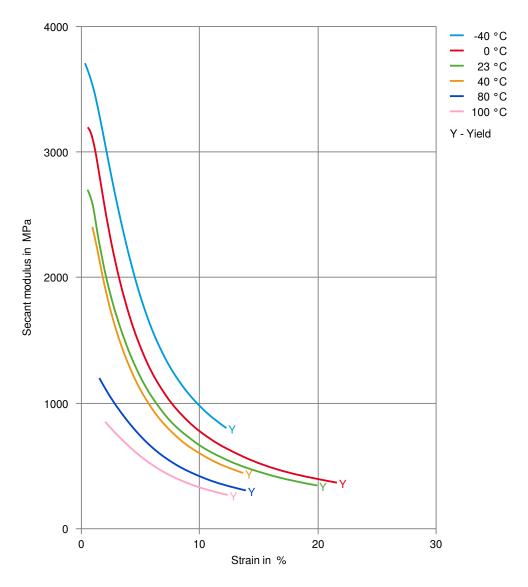
Stress-strain





HOSTAFORM®

Secant modulus-strain

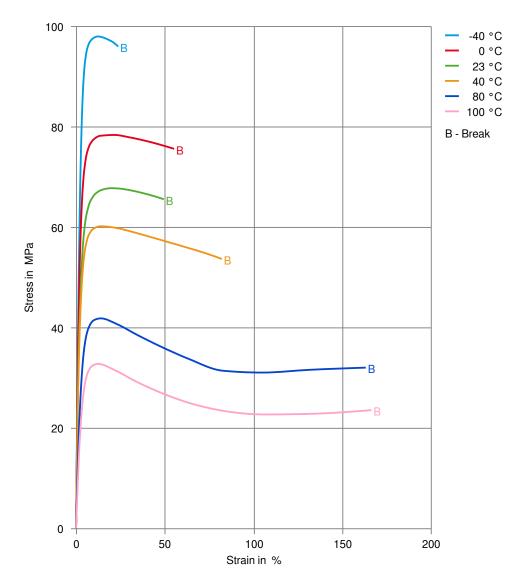






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Stress-strain, 50mm/min

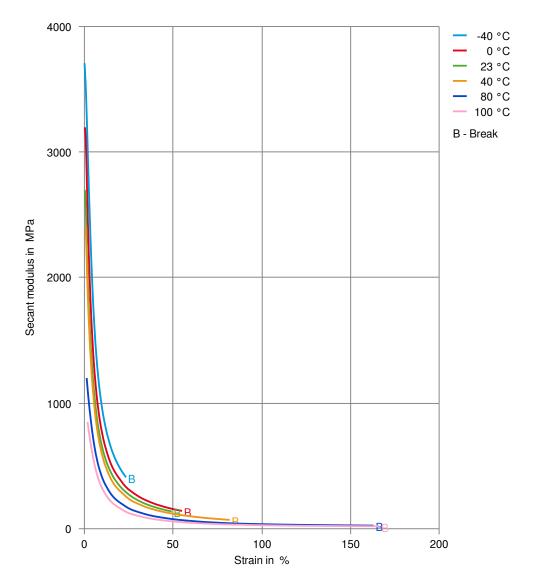






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Secant modulus-strain, 50mm/min



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