

HOSTAFORM® S 9363 - POM
Description

Impact modified, improved modulus and weld line

Hostaform® acetal copolymer grade S 9363 is an impact modified grade for demanding applications. Hostaform® S 9363 provides good impact strength while improving modulus and weld line strength over standard impact modified grades such as Hostaform® S 9362. Chemical abbreviation according to ISO 1043-1: POM-HI

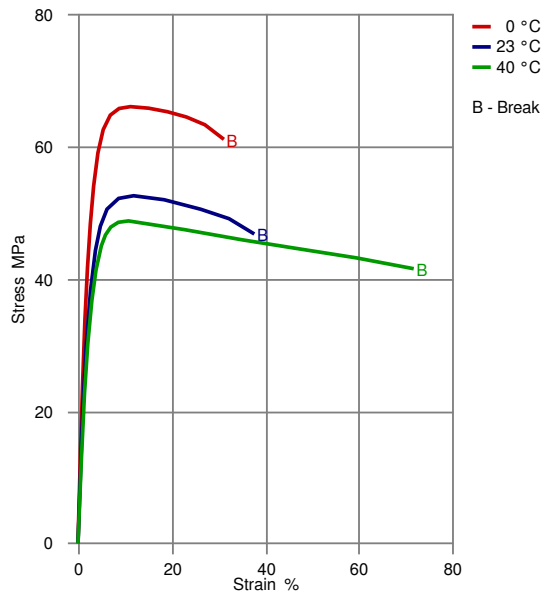
Physical properties	Value	Unit	Test Standard
Density	1380	kg/m ³	ISO 1183
Melt volume rate, MVR	5.5	cm ³ /10min	ISO 1133
MVR temperature	190	°C	ISO 1133
MVR load	2.16	kg	ISO 1133
Molding shrinkage, parallel (flow)	1.8	%	ISO 294-4, 2577
Molding shrinkage, transverse normal	1.6	%	ISO 294-4, 2577
Water absorption, 23°C-sat	0.8	%	Sim. to ISO 62
Humidity absorption, 23°C/50%RH	0.25	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	2000	MPa	ISO 527-1, -2
Tensile stress at yield, 50mm/min	50	MPa	ISO 527-1, -2
Tensile strain at yield, 50mm/min	12	%	ISO 527-1, -2
Flexural modulus, 23°C	2000	MPa	ISO 178
Charpy impact strength, 23°C	NB	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	NB	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	8	kJ/m ²	ISO 179/1eA
Izod impact notched, 23°C	13	kJ/m ²	ISO 180/1A
Izod impact notched, -30°C	10	kJ/m ²	ISO 180/1A
Izod impact notched, -40°C	8	kJ/m ²	ISO 180/1A
Izod impact unnotched, 23°C	NB	kJ/m ²	ISO 180/1U
Rockwell hardness (M-Scale)	65	M-Scale	ISO 2039-2

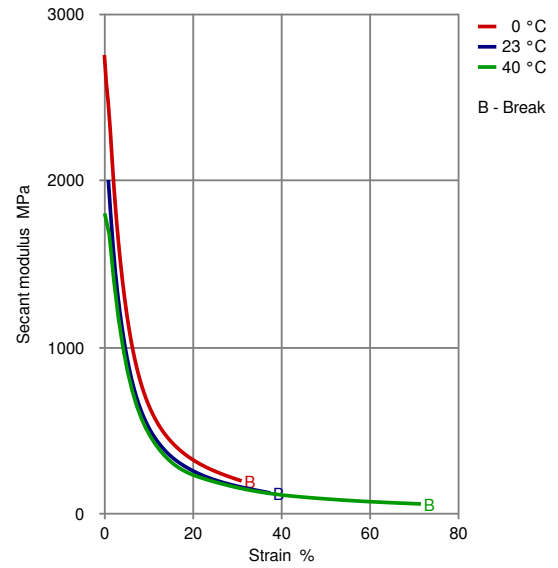
Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
DTUL at 1.8 MPa	84	°C	ISO 75-1, -2
DTUL at 0.45 MPa	148	°C	ISO 75-1, -2
Coeff. of linear therm expansion, parallel	1.1	E-4/°C	ISO 11359-2
Coeff. of linear therm expansion, normal	1.1	E-4/°C	ISO 11359-2

Diagrams

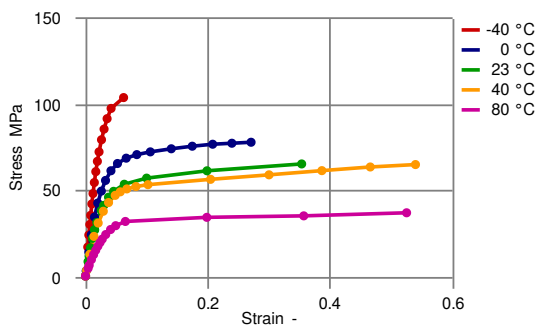
Stress-strain



Secant modulus-strain



True Stress-strain



Typical injection moulding processing conditions

Pre Drying

	Value	Unit
Drying time	3 - 4	h
Drying temperature	100 - 120	°C

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Temperature	Value	Unit
Zone1 temperature	170 - 180	°C
Zone2 temperature	180 - 190	°C
Zone3 temperature	180 - 190	°C
Zone4 temperature	180 - 200	°C
Nozzle temperature	180 - 200	°C
Melt temperature	180 - 210	°C
Mold temperature	60 - 70	°C

Pressure	Value	Unit
Back pressure max.	20	bar

Speed	Value
Injection speed	slow

Other text information

Pre-drying

Drying is not normally required. If material has contacted moisture through improper storage and handling or through regrind use, dry to prevent splay and odor problems.

Characteristics

Special Characteristics	Auto spec approved, Improved weld line
Product Categories	Low emission, Impact modified
Processing	Injection molding, Profile extrusion
Delivery Form	Pellets
Additives	Release agent

Other Approvals

OEM	Specification	Additional Information
Changan	MTS-F01-02-001-A3	2019
Stellantis - Chrysler	CPN 2940	Natural
Stellantis - Chrysler	CPN 2726	Black
Ford	WSF-M4D618-A	
GM	GMW22P-POM-C2P1	
Renault		No spec listed
Li Auto	Q/LiA5310020	2021 (V2)

Contact

Americas

8040 Dixie Highway
Florence, KY 41042 USA
Product Information Service
t: +1-800-833-4882
t: +1-859-372-3244
Customer Service
t: +1-800-526-4960
t: +1-859-372-3214
e: info-engineeredmaterials-am@celanese.com

Asia

4560 Jinke Road
Zhang Jiang Hi Tech Park
Shanghai 201210 PRC
Customer Service
t: +86 21 3861 9288
e: info-engineeredmaterials-asia@celanese.com

Europe

Am Unisys-Park 1
65843 Sulzbach, Germany
Product Information Service
t: +49-800-86427-531
t: +49-(0)-69-45009-1011
e: info-engineeredmaterials-eu@celanese.com

General Disclaimer

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