

## HOSTAFORM® S 9363 - POM

### Description

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 9064. Chemical abbreviation according to ISO 1043-1: POM-HI

Physical properties	Value	Unit	Test Standard
Density	1380	kg/m <sup>3</sup>	ISO 1183
Melt volume rate, MVR	5,5	cm <sup>3</sup> /10min	ISO 1133
MVR temperature	190	°C	ISO 1133
MVR load	2,16	kg	ISO 1133
Molding shrinkage, parallel	1,8	%	ISO 294-4, 2577
Molding shrinkage, normal	1,6	%	ISO 294-4, 2577
Water absorption, 23°C-sat	0,8	%	ISO 62
Humidity absorption, 23°C/50%RH	0,25	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	2000	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	50	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	12	%	ISO 527-2/1A
Flexural modulus, 23°C	2000	MPa	ISO 178
Charpy impact strength, 23°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, 23°C	13	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	8	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact notched, 23°C	13	kJ/m <sup>2</sup>	ISO 180/1A
Izod impact notched, -30°C	10	kJ/m <sup>2</sup>	ISO 180/1A
Izod impact notched, -40°C	8	kJ/m <sup>2</sup>	ISO 180/1A
Izod impact unnotched, 23°C	N	kJ/m <sup>2</sup>	ISO 180/1U
Rockwell hardness	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
Vicat softening temperature, 50°C/h 50N	161	°C	ISO 306
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
Melting point	165	°C	Internal

Test specimen production	Value	Unit	Test Standard
Processing conditions acc. ISO	9988-2	-	Internal
Injection Molding, melt temperature	205	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294
Injection Molding, pressure at hold	86	MPa	ISO 294

### Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	3 - 4	h	-
Drying temperature	100 - 120	°C	-
Temperature	Value	Unit	Test Standard
Zone1 temperature	170 - 180	°C	-
Zone2 temperature	180 - 190	°C	-
Zone3 temperature	180 - 190	°C	-
Zone4 temperature	180 - 200	°C	-
Die temperature	180 - 200	°C	-
Melt temperature	180 - 200	°C	-
Cavity temperature	60 - 70	°C	-
Pressure	Value	Unit	Test Standard
Back pressure max.	20	bar	-

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Speed	Value	Unit	Test Standard
Injection speed	slow	-	-
Other	Value	Unit	Test Standard
No flow temperature	165	°C	Internal

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### Other text information

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#### 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.

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### Characteristics

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#### Product Categories

Impact modified

#### Contact Information

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### General Disclaimer

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NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values. Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products. The products mentioned herein are not intended for use in medical or dental implants.

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