

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

Rheological properties

Melt volume-flow rate Temperature	5.5 190	cm ³ /10min °C	ISO 1133
Load	2.16	kg	
Moulding shrinkage, parallel	1.8	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.6	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus	2000	MPa	ISO 527-1/-2
Yield stress, 50mm/min	50	MPa	ISO 527-1/-2
Yield strain, 50mm/min	12	%	ISO 527-1/-2
Flexural Modulus	2000	MPa	ISO 178
Shear Modulus	491	MPa	ISO 6721
Charpy impact strength, 23°C	NB	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	NB	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	13	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C		kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C		kJ/m²	ISO 180/1A
Izod notched impact strength, -30°C		kJ/m²	ISO 180/1A
Izod notched impact strength, -40°C		kJ/m²	ISO 180/1A
Izod impact strength, 23°C		kJ/m²	ISO 180/1U
Hardness, Rockwell, M-scale	65		ISO 2039-2
Poisson's ratio	0.41		
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	84	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	148	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 10N	161	°C	ISO 306
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2
Other properties			
Humidity absorption, 2mm	0.25	%	Sim. to ISO 62
Water absorption, 2mm	0.8		Sim. to ISO 62
Density		kg/m³	ISO 1183

Printed: 2023-08-07 Page: 1 of 6



Internal

HOSTAFORM® S 9363

Injection

Drying Temperature 100 - 120 °C
Drying Time, Dehumidified Dryer 3 - 4 h
Melt Temperature Optimum 200 °C
Max. mould temperature 60 - 70 °C
Back pressure 2 MPa
Injection speed slow

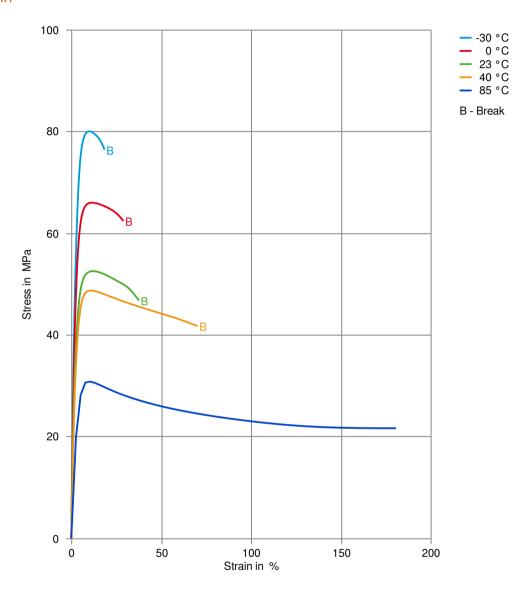
Characteristics

Additives Release agent

Printed: 2023-08-07 Page: 2 of 6



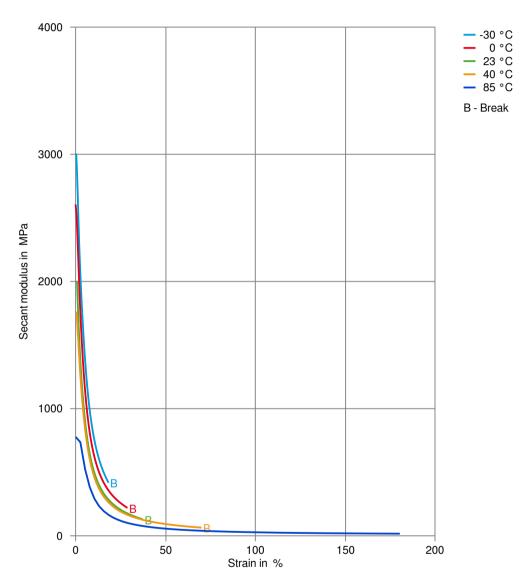
Stress-strain



Printed: 2023-08-07 Page: 3 of 6



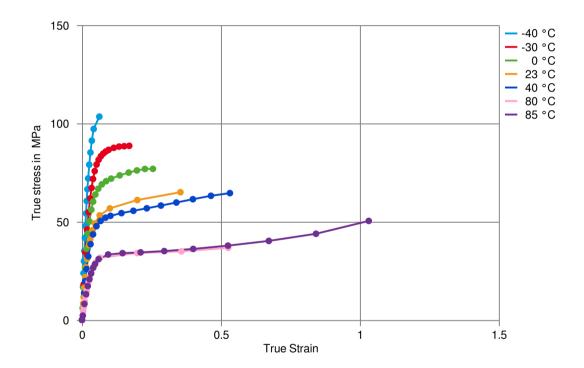
Secant modulus-strain



Printed: 2023-08-07 Page: 4 of 6



True stress-strain



Printed: 2023-08-07 Page: 5 of 6



Processing Texts

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.

Other Approvals

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)

Printed: 2023-08-07 Page: 6 of 6

Revised: 2023-02-23 Source: Celanese Materials Database

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. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, 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, pr

© 2023 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC. KEPITAL is a registered trademark of Korea Engineering Plastics Company, Ltd.