

HOSTAFORM® EC141SXF 10/9022 - POM

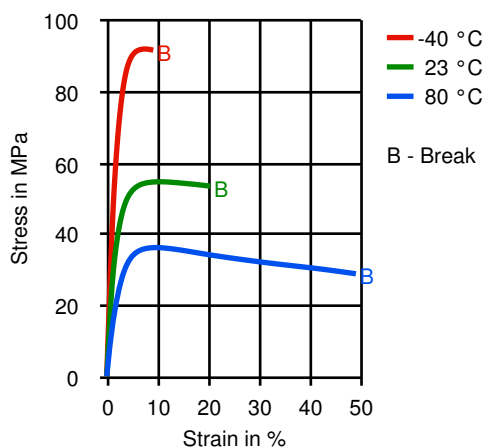
Description

Hostaform® acetal copolymer grade EC141SXF 10/9022 is a conductive grade modified to resist deterioration from aggressive fuel blends. Hostaform® EC141SXF 10/9022 has been developed to dissipate static electricity from fuel handling systems. Hostaform® EC141SXF 10/9022 has been specially formulated for laser welding applications. Please note Hostaform® EC141SXF 10/9022 has special processing considerations to ensure static dissipation properties. Use minimum back pressure and slowest screw speed possible in retracting screw during cooling portion of cycle. Large gate size (>2 mm) recommended. Pneumatic conveying of material long distances is not recommended.

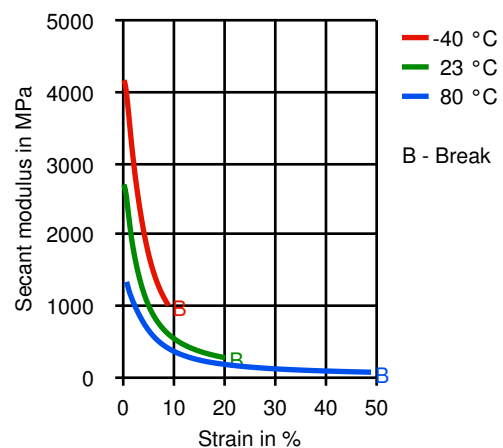
Physical properties	Value	Unit	Test Standard
Density	1500	kg/m ³	ISO 1183
Mechanical properties	Value	Unit	Test Standard
Tensile modulus	3200	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	58	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	11	%	ISO 527-2/1A
Tensile strain at break, 50mm/min	17	%	ISO 527-2/1A
Flexural modulus, 23°C	3000	MPa	ISO 178
Charpy notched impact strength, 23°C	4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	3	kJ/m ²	ISO 179/1eA
Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	170	°C	ISO 11357-1/-3
DTUL at 1.8 MPa	100	°C	ISO 75-1, -2
Coeff. of linear therm expansion, parallel	1	E-4/°C	ISO 11359-2
Coeff. of linear therm expansion, normal	1,1	E-4/°C	ISO 11359-2
Electrical properties	Value	Unit	Test Standard
Volume resistivity	3	Ohm*m	IEC 60093

Diagrams

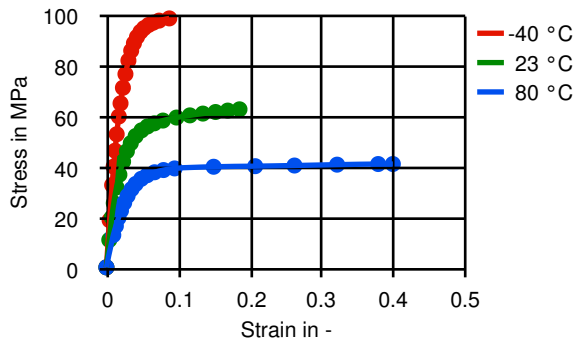
Stress-strain



Secant modulus-strain



True Stress-strain



Typical injection moulding processing conditions

	Value	Unit	Test Standard
Pre Drying			
Drying time	3 - 4	h	-
Drying temperature	100 - 120	°C	-
Temperature	Value	Unit	Test Standard
Zone1 temperature	170 - 180	°C	-
Zone2 temperature	175 - 185	°C	-
Zone3 temperature	180 - 190	°C	-
Zone4 temperature	185 - 195	°C	-
Nozzle temperature	190 - 200	°C	-
Melt temperature	180 - 200	°C	-
Mold temperature	80 - 120	°C	-
Hot runner temperature	190 - 200	°C	-
Pressure	Value	Unit	Test Standard
Back pressure max.	20	bar	-
Speed	Value	Unit	Test Standard
Injection speed	slow	-	-
Screw Speed	Value	Unit	Test Standard
Screw speed diameter, 16mm	slow	RPM	-
Screw speed diameter, 25mm	slow	RPM	-
Screw speed diameter, 40mm	slow	RPM	-
Screw speed diameter, 55mm	slow	RPM	-
Screw speed diameter, 75mm	slow	RPM	-

Other text information

Pre-drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.

Characteristics

Product Categories

Specialty

Delivery Form

Pellets

Contact Information

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 201203 PRC
 Customer Service
 t: +86 21 3861 9266
 f: +86 21 3861 9599
 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

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.

Trademark

© 2014 Celanese or its affiliates. All rights reserved. (Published 27.July.2016). 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.