HOSTAFORM® EC141SXF 10/9022

Electroconductive fuel resistant
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.

Typical mechanical properties

Tensile Modulus	3200	MPa	ISO 527-1/-2
Yield stress, 50mm/min	58	MPa	ISO 527-1/-2
Yield strain, 50mm/min	11	%	ISO 527-1/-2
Strain at break, 5mm/min	17	%	ISO 527-1/-2
Flexural Modulus	3000	MPa	ISO 178
Shear Modulus	1040	MPa	ISO 6721
Charpy notched impact strength, 23°C	4	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	3	kJ/m²	ISO 179/1eA
Poisson's ratio	0.43		

Thermal properties

Melting temperature, 10°C/min	170	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	100	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	100	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110	E-6/K	ISO 11359-1/-2

Electrical properties

Surface resistivity	1000	Ohm	IEC 62631-3-2
Resistivity, conductive plastics	1	Ohm.m	ISO 3915

Other properties

Density	1500	kg/m³	ISO 1183

Injection

Drying Temperature	100 - 120	°C	
Drying Time, Dehumidified Dryer	3 - 4	h	
Melt Temperature Optimum	190	°C	Internal
Max. mould temperature	80 - 120	°C	
Back pressure	2	MPa	
Injection speed	slow		

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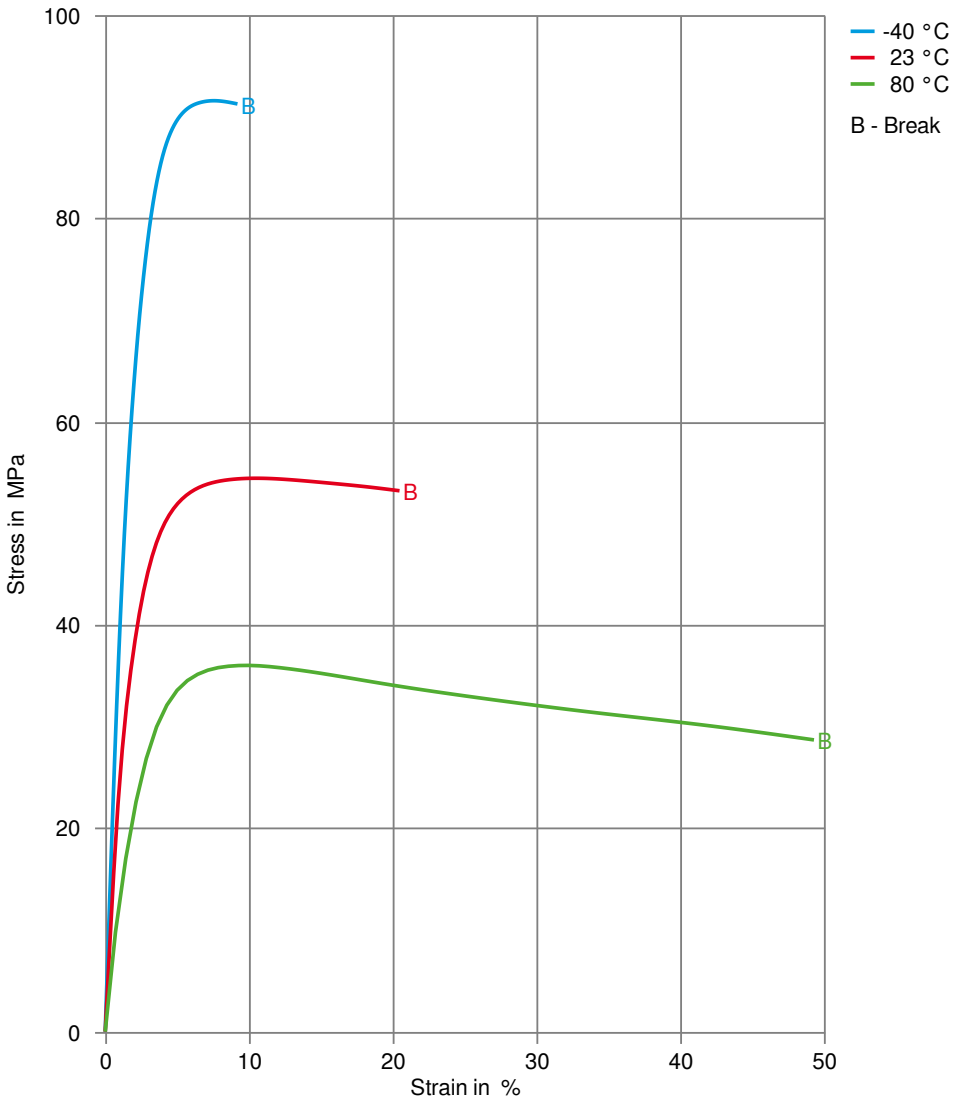
Stress-strain



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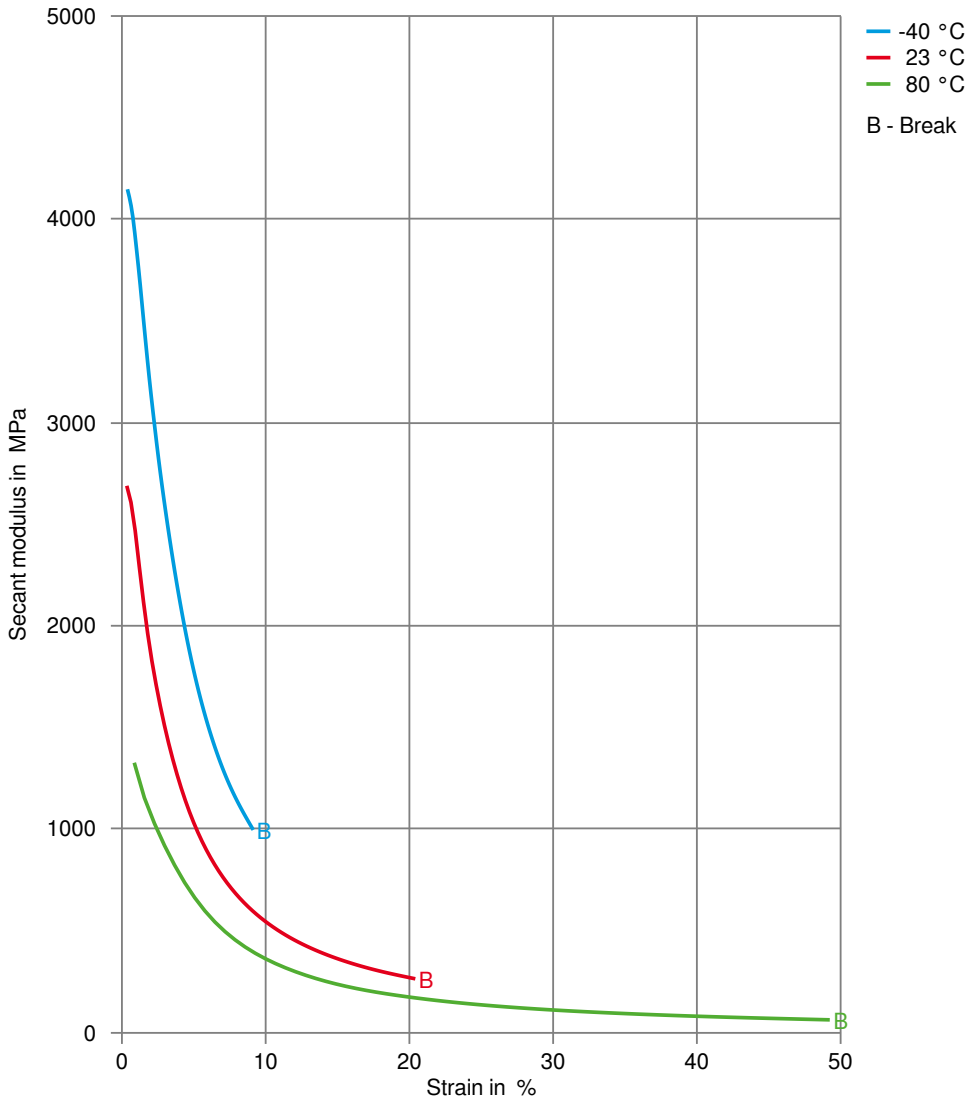
Secant modulus-strain



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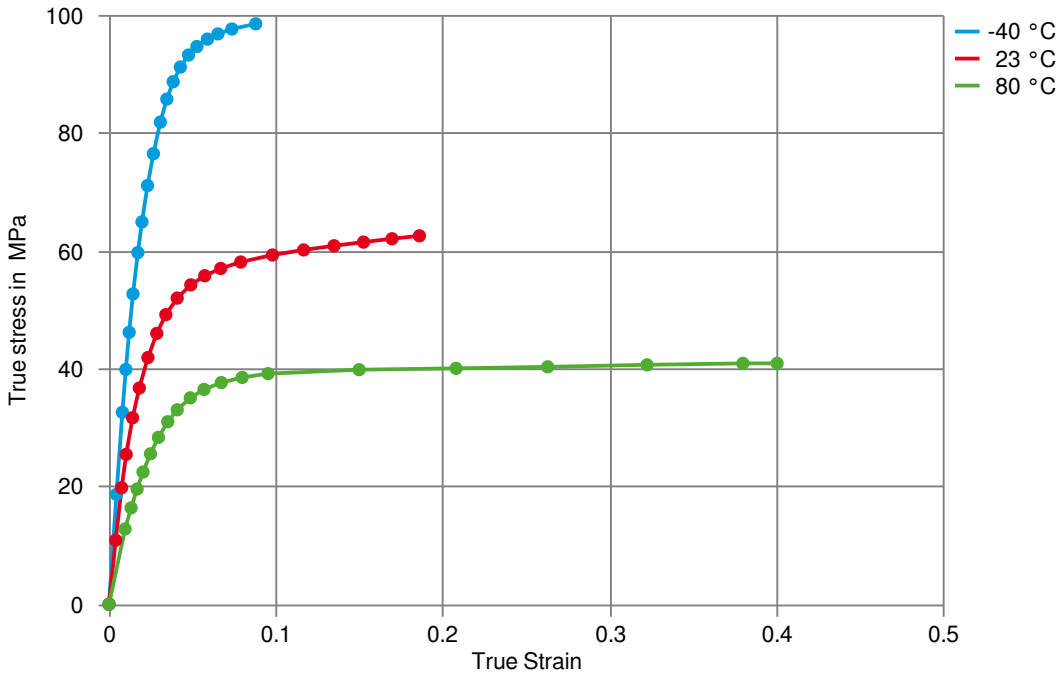
True stress-strain



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Processing Texts

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.

Other Approvals

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OEM	Specification	Additional Information
Bosch	N28 BN22-X021	Black
Stellantis - Chrysler	CPN 5290	Black
Continental	TST N 055 54.44	(TST N 055 54.44-001)
Mercedes-Benz Group (Daimler)		No spec listed
GM	GMW17195P-POM-T2	

Chemical Media Resistance

Standard Fuels

- ✔ ISO 1817 Liquid 1 - E5, 60°C
- ✔ ISO 1817 Liquid 2 - M15E4, 60°C
- ✔ ISO 1817 Liquid 3 - M3E7, 60°C
- ✔ ISO 1817 Liquid 4 - M15, 60°C
- ✔ Standard fuel without alcohol (pref. ISO 1817 Liquid C), 23°C
- ✔ Standard fuel with alcohol (pref. ISO 1817 Liquid 4), 23°C

Symbols used:

✔ possibly resistant
Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

✘ not recommended - see explanation
Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

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