

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.

#### Product information **Resin Identification** POM-MEF(x) ISO 1043 ISO 11469 Part Marking Code >POM-MEF(x)< Typical mechanical properties Tensile modulus 3200 MPa ISO 527-1/-2 Tensile stress at yield, 50mm/min 58 MPa ISO 527-1/-2 Tensile strain at yield, 50mm/min 11 % ISO 527-1/-2 Tensile strain at break, 50mm/min 17 % ISO 527-1/-2 3000 MPa Flexural modulus **ISO 178** Charpy notched impact strength, 23°C $4 \text{ kJ/m}^2$ ISO 179/1eA Charpy notched impact strength, -30°C 3 kJ/m<sup>2</sup> ISO 179/1eA Poisson's ratio 0.43 Thermal properties 170 °C Melting temperature, 10°C/min ISO 11357-1/-3 100 °C Temperature of deflection under load, 1.8 MPa ISO 75-1/-2 Coefficient of linear thermal expansion 100 E-6/K ISO 11359-1/-2 (CLTE), parallel Coefficient of linear thermal expansion (CLTE), 110 E-6/K ISO 11359-1/-2 normal Electrical properties Surface resistivity 1000 Ohm IEC 62631-3-2 Resistivity, conductive plastics 0.5 Ohm.m ISO 3915 Physical/Other properties Density 1500 kg/m<sup>3</sup> ISO 1183 Injection **Drying Recommended** no 100 °C **Drying Temperature** Drying Time, Dehumidified Dryer 3-4 h **Processing Moisture Content** ≤0.2 % 190 °C Melt Temperature Optimum 180 °C Min. melt temperature Max. melt temperature 200 °C Screw tangential speed ≤0.3 m/s Mold Temperature Optimum 100 °C

80 °C

120 °C

Printed: 2025-05-30

Min. mould temperature

Max. mould temperature





Hold pressure range Back pressure Ejection temperature

### Characteristics

ProcessingInjection MouldingDelivery formPelletsSpecial characteristicsIncreased electrical conductivity, Static dissipative

### Additional information

**Processing Notes** 

60 - 120 MPa 2 MPa 134 °C

## **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.

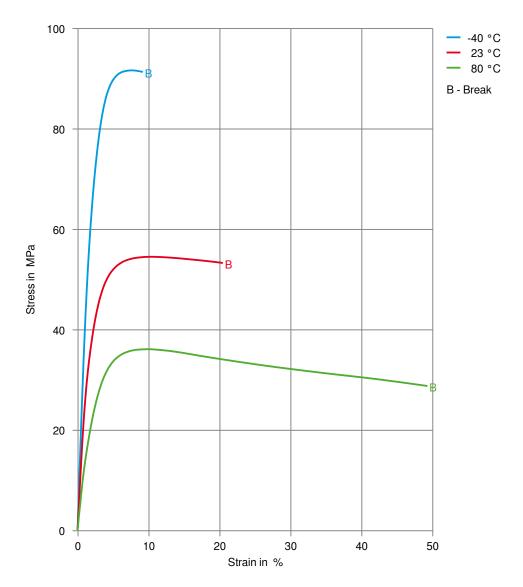
### Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Bosch	N28 BN22-X021	Black
Continental	TST N 055 54.44	(TST N 055 54.44-001)
General Motors	GMW17195P-POM-T2	Black, Conductive POM
Mercedes-Benz	No spec listed	
Stellantis - Chrysler	MS.50095 / CPN-5290	Black;CPN5290 BLACK





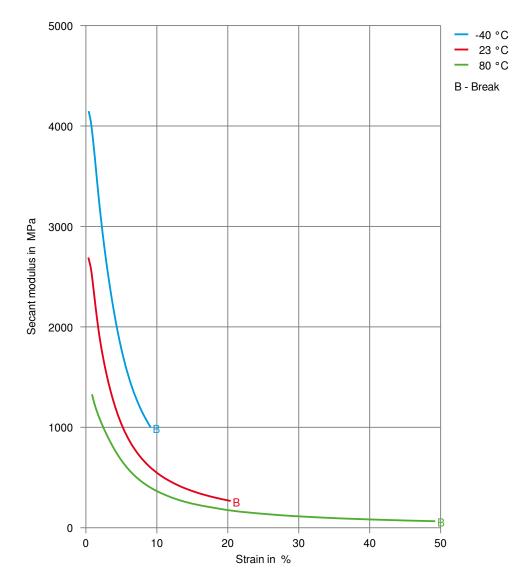
Stress-strain







### Secant modulus-strain







### **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).

#### Printed: 2025-05-30

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#### Revised: 2024-03-27 Source: Celanese Materials Database

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