Celanese
The chemistry inside innovation™

HOSTAFORM® EC140CF10

10% carbon fiber, electrostatic dissipative grade
Hostaform® acetal copolymer grade EC140CF10 is a 10% carbon fiber reinforced grade for increase strength, stiffness and electrical conductivity.
Preliminary Data Sheet

Rheological properties

Melt volume-flow rate	12	cm^3/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	0.8	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.0	%	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	8500	MPa	ISO 527-1/-2
Stress at break, 5mm/min	70	MPa	ISO 527-1/-2
Strain at break, 5mm/min	1.5	%	ISO 527-1/-2
Flexural Modulus	8500	MPa	ISO 178
Charpy notched impact strength, 23°C	3.2	kJ/m^2	ISO 179/1eA
Charpy notched impact strength, -30°C	3.2	kJ/m^2	ISO 179/1eA
Poisson's ratio	0.454		

Thermal properties

Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	158	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	162	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	100	E-6/K	ISO 11359-1/-2

Electrical properties

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

Other properties

Density	1440	kg/m^3	ISO 1183

Injection

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

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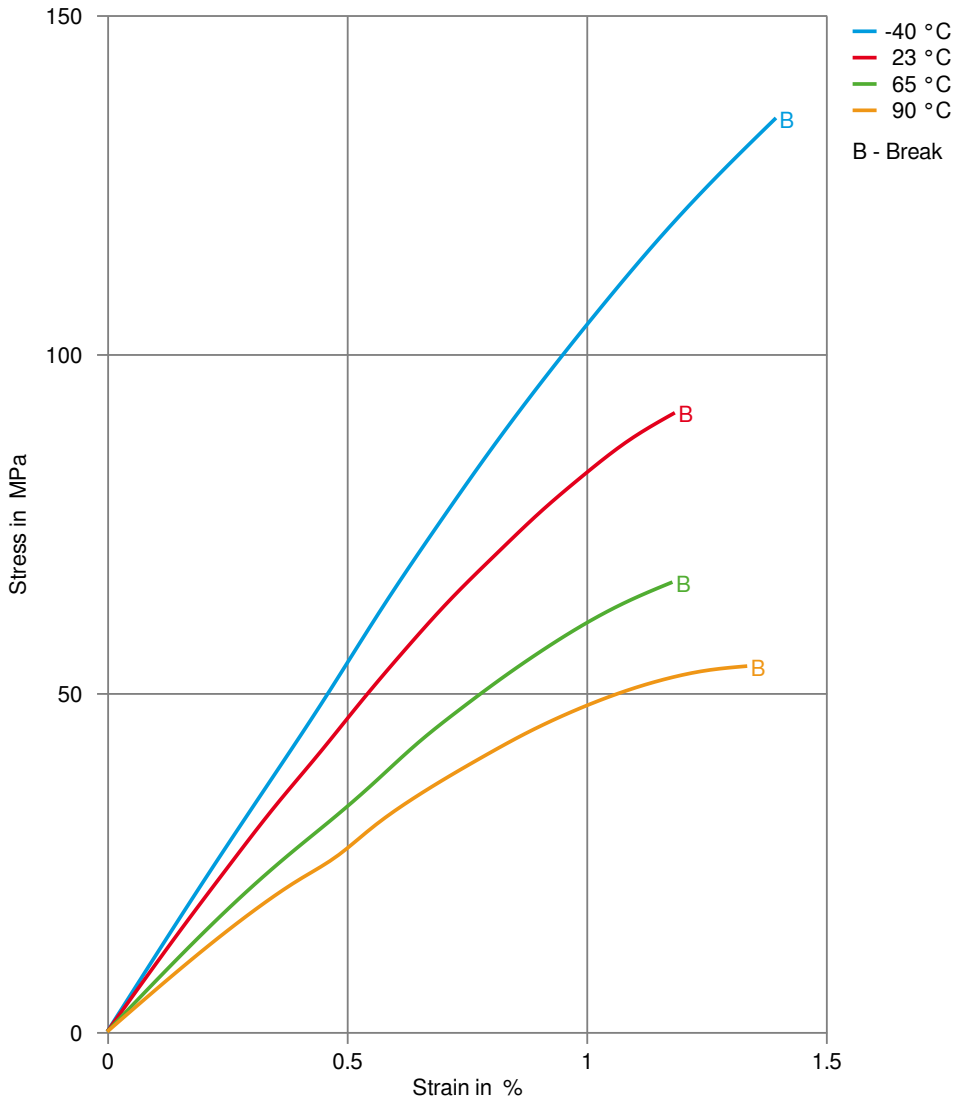
Stress-strain



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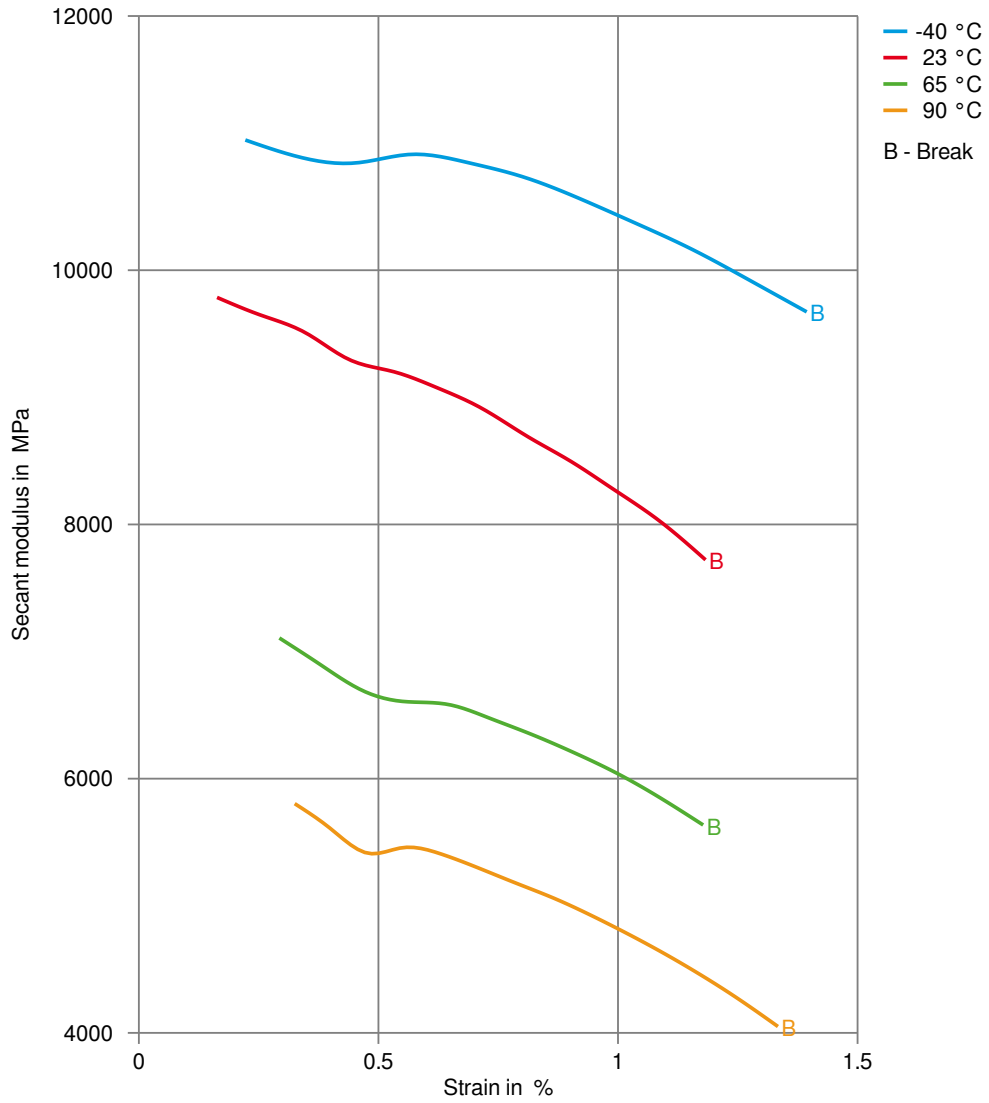
Secant modulus-strain



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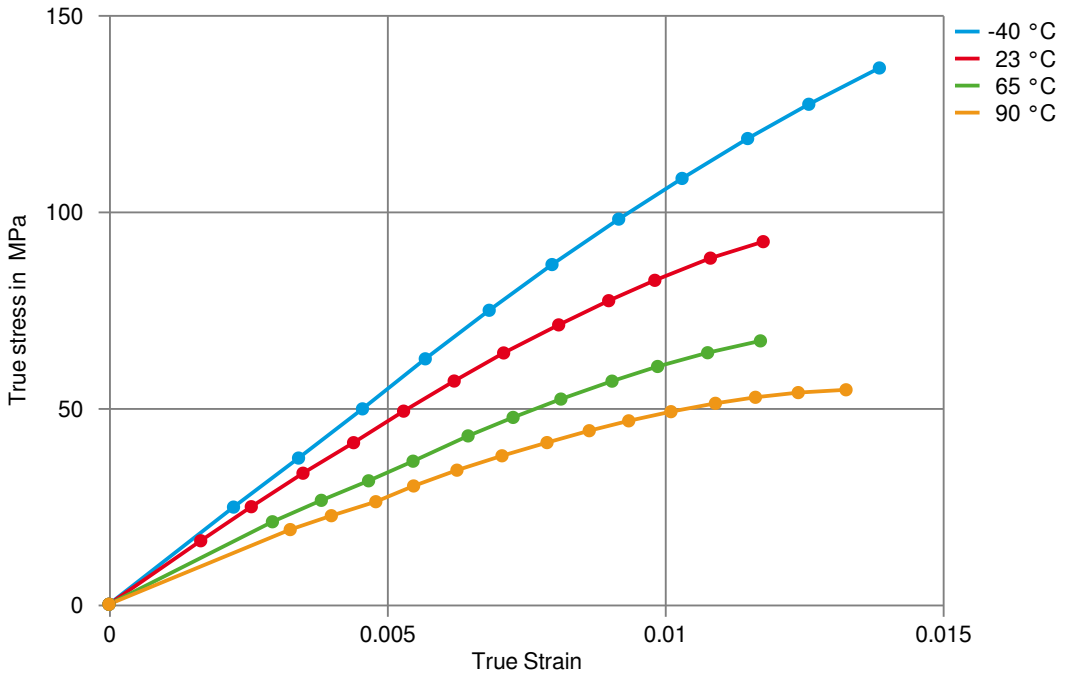
True stress-strain



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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.