

COOLPOLY® E5127

COOLPOLY®

Product information

Resin Identification	PPS	ISO 1043
Part Marking Code	>PPS<	ISO 11469

Typical mechanical properties

Tensile modulus	15000 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	49 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	0.35 %	ISO 527-1/-2
Flexural modulus	15200 MPa	ISO 178
Flexural strength	81 MPa	ISO 178
Charpy impact strength, 23°C	3.5 kJ/m ²	ISO 179/1eU
Poisson's ratio	0.33 ^[C]	

[C]: Calculated

Thermal properties

Thermal conductivity, flow	16 W/(m K)	ISO 22007-2
Thermal conductivity, crossflow	12.8 W/(m K)	ISO 22007-2
Thermal conductivity, through plane	2.2 W/(m K)	ISO 22007-2

Physical/Other properties

Density	1610 kg/m ³	ISO 1183
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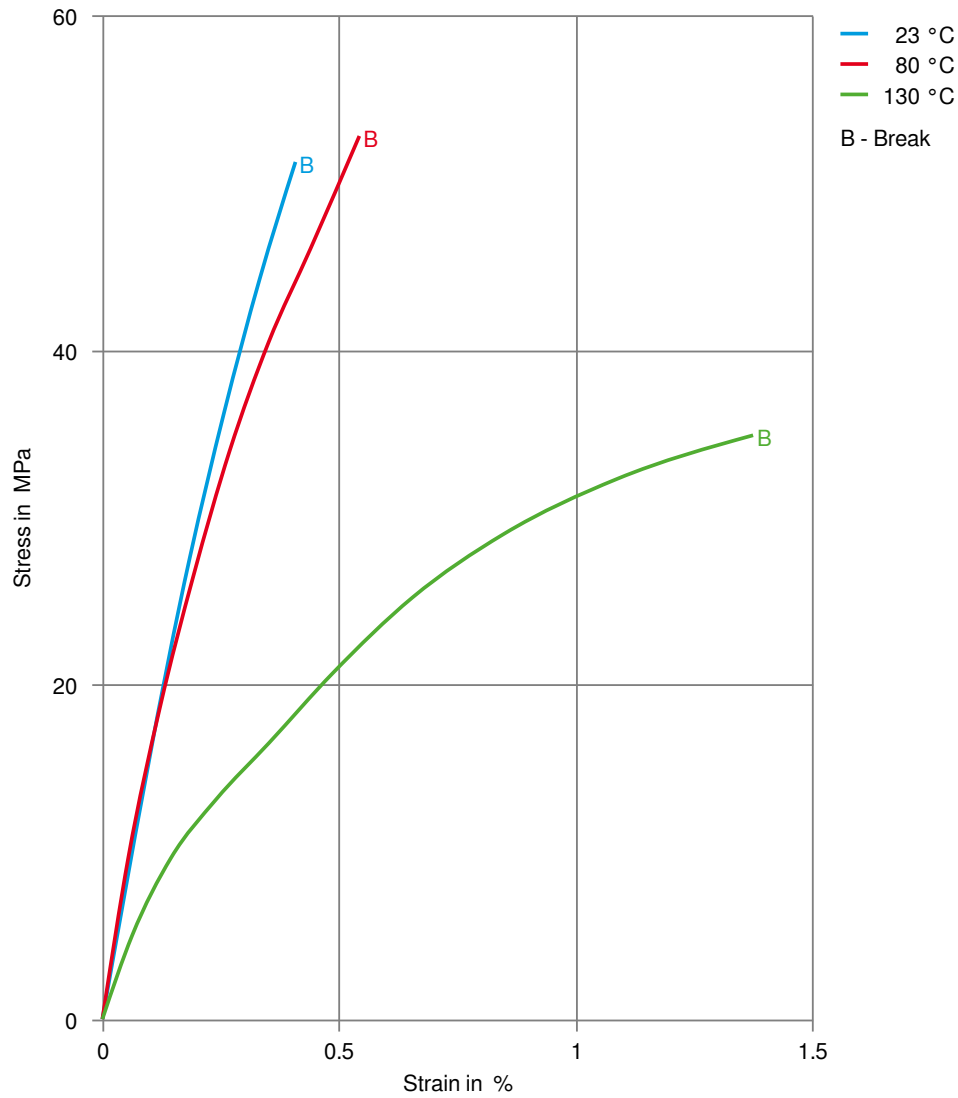
Characteristics

Processing	Injection Moulding
Special characteristics	Increased electrical conductivity, Static dissipative, Flame retardant, Light weight

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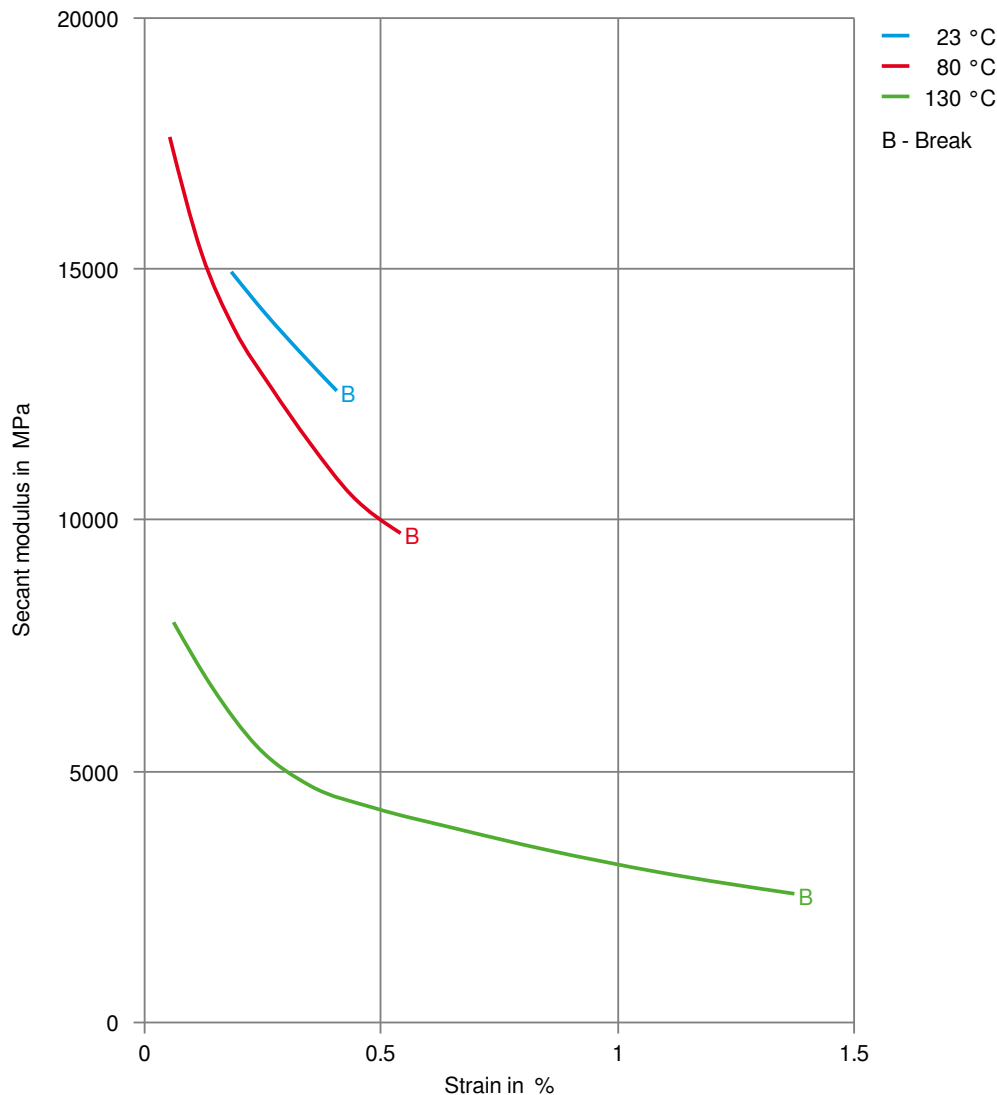
Stress-strain



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Secant modulus-strain



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Page: 3 of 3

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