

ZENITE® 5333

Typical mechanical properties

Tensile Modulus	9300 MPa	ISO 527-1/-2
Stress at break, 50mm/min	133 MPa	ISO 527-1/-2
Strain at break, 50mm/min	4.1 %	ISO 527-1/-2
Flexural Modulus	9500 MPa	ISO 178
Flexural Strength	140 MPa	ISO 178
Charpy notched impact strength, 23°C	11.5 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	320 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	260 °C	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	V-0 class	UL 94
Thickness tested	1.50 mm	UL 94

Other properties

Density	1620 kg/m ³	ISO 1183
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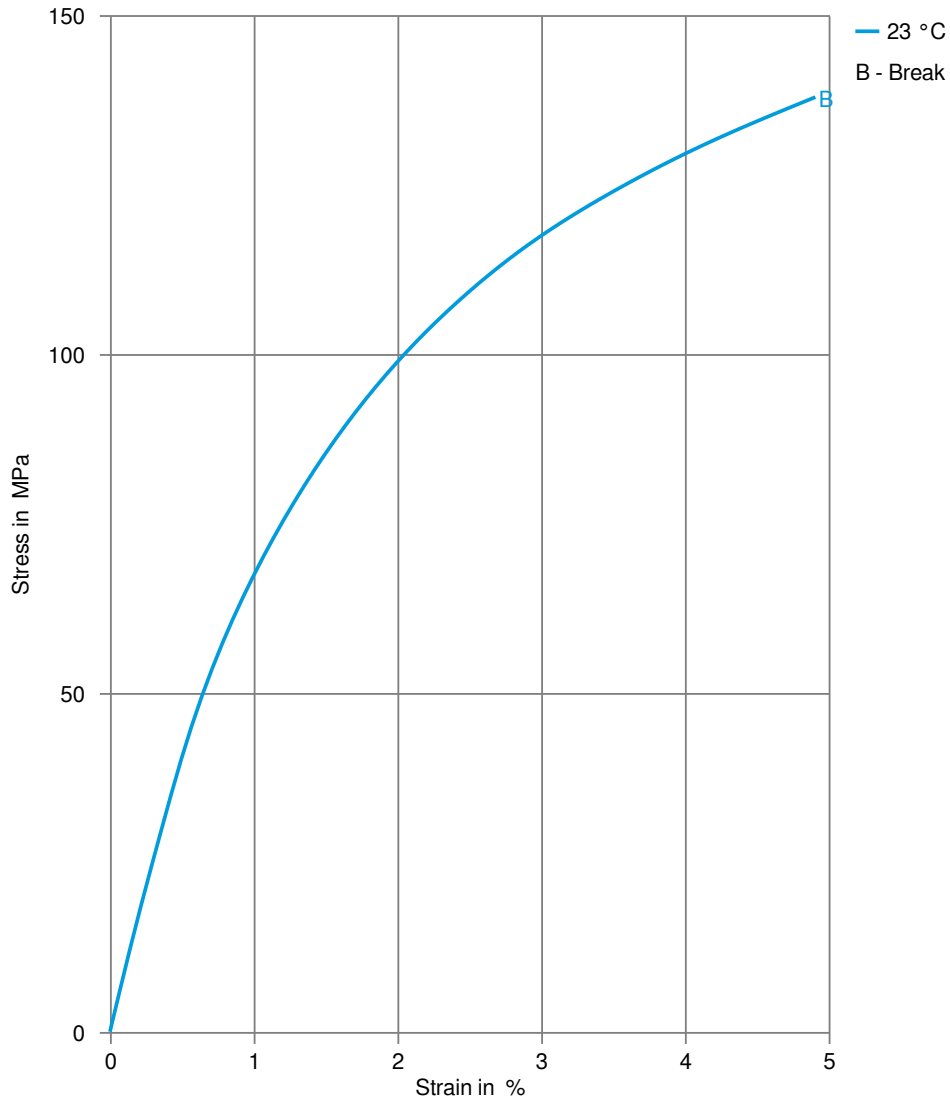
Injection

Drying Temperature	150 °C
Drying Time, Dehumidified Dryer	6 h
Processing Moisture Content	0.01 %
Max. mould temperature	70 - 120 °C
Injection speed	high



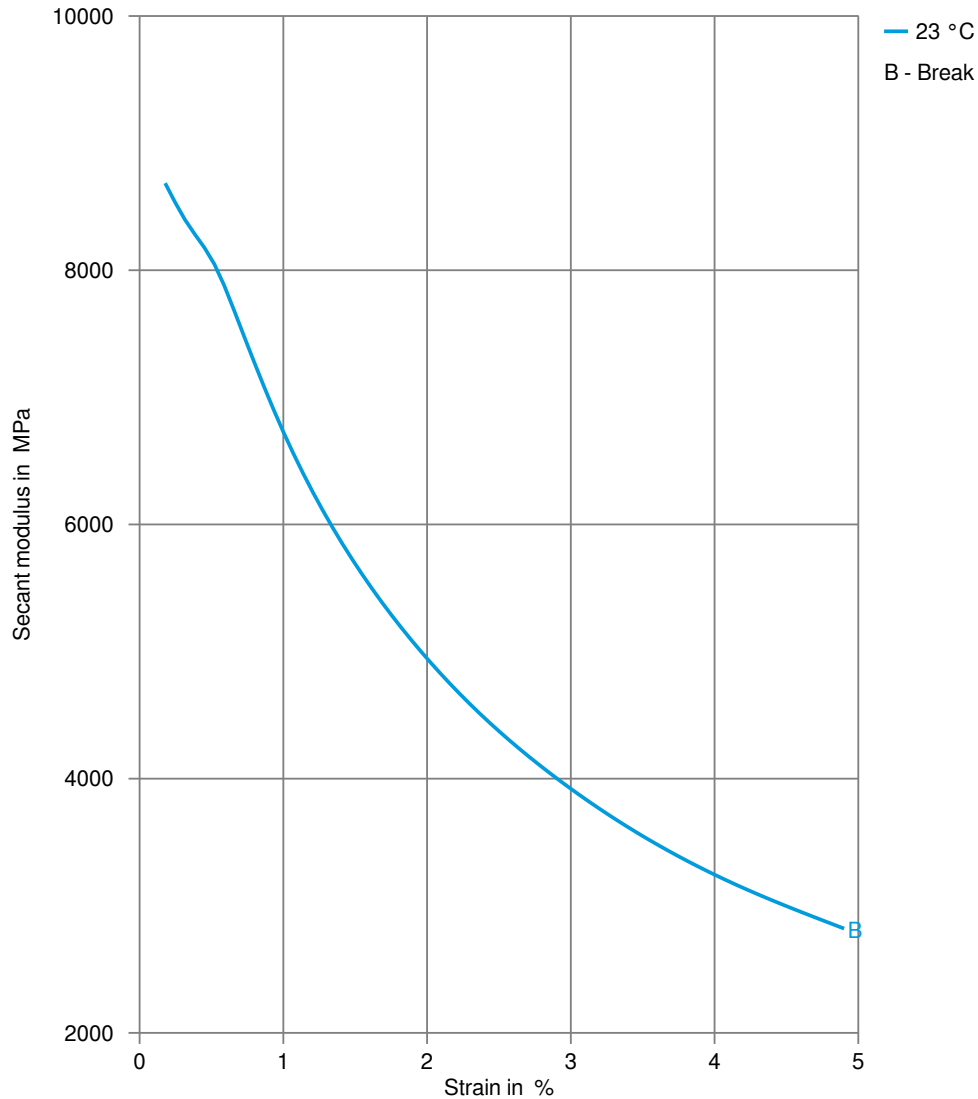
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Stress-strain



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Secant modulus-strain



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Processing Texts

Pre-drying

Please allow time for resin to reach drying temperature. Insure filter element is clean and there is sufficient air flow (>1 ft/sec. space velocity) across surface of pellets Extended drying at 300 °F (150 °C) up to 24 hours will not harm resin. Hopper dryers with dual desiccant cartridges (one active while the other is regenerating) are highly recommended.

*Drying Conditions using Dehumidified Hopper Dryer
Dew point of dried air should be -40 °F (-40 °C) or below*

Minimum Drying Time at Temperature

6 hr

