

HOSTAFORM® RF 2162

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Hostaform® POM RF 2162 is an impact modified acetal copolymer that has been specially designed for Rotomolding. The material is UV stabilized and is available in precolored black or natural. Hostaform® POM RF 2162 has low fuel permeation and meets CARB and EPA regulations as a single layer solution.

Product information

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

Rheological properties

Melt mass-flow rate	3.1 g/10min	ISO 1133
Melt mass-flow rate, Temperature	190 °C	
Melt mass-flow rate, Load	2.16 kg	
Moulding shrinkage range, parallel	1.5 - 2 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.5 - 2 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	1400 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	42 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	20 %	ISO 527-1/-2
Tensile stress at break, 50mm/min	32 MPa	ISO 527-1/-2
Tensile strain at break, 50mm/min	>50 %	ISO 527-1/-2
Flexural modulus	1350 MPa	ISO 178
Charpy impact strength, 23°C	N kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	14.8 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	8 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.43 ^[C]	
Multiaxial impact, total energy, 23°C	24 J	ASTM D 3763
Multiaxial impact, maximum load, 23°C	3690 N	ASTM D 3763
Mean Failure Energy, 23°C	12 J	ARM Impact Test
Mean Failure Energy, -20°C	5 J	ARM Impact Test
Mean Failure Energy, -40°C	4 J	ARM Impact Test

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	165 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	65 °C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	121 °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	122 °C	ISO 306

Physical/Other properties

Density	1350 kg/m ³	ISO 1183
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Injection

Drying Recommended	no
Drying Temperature	100 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	≤0.2 %

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Screw tangential speed
Hold pressure range

≤0.3 m/s
60 - 120 MPa

Characteristics

Processing

Injection Moulding, Rotational Moulding

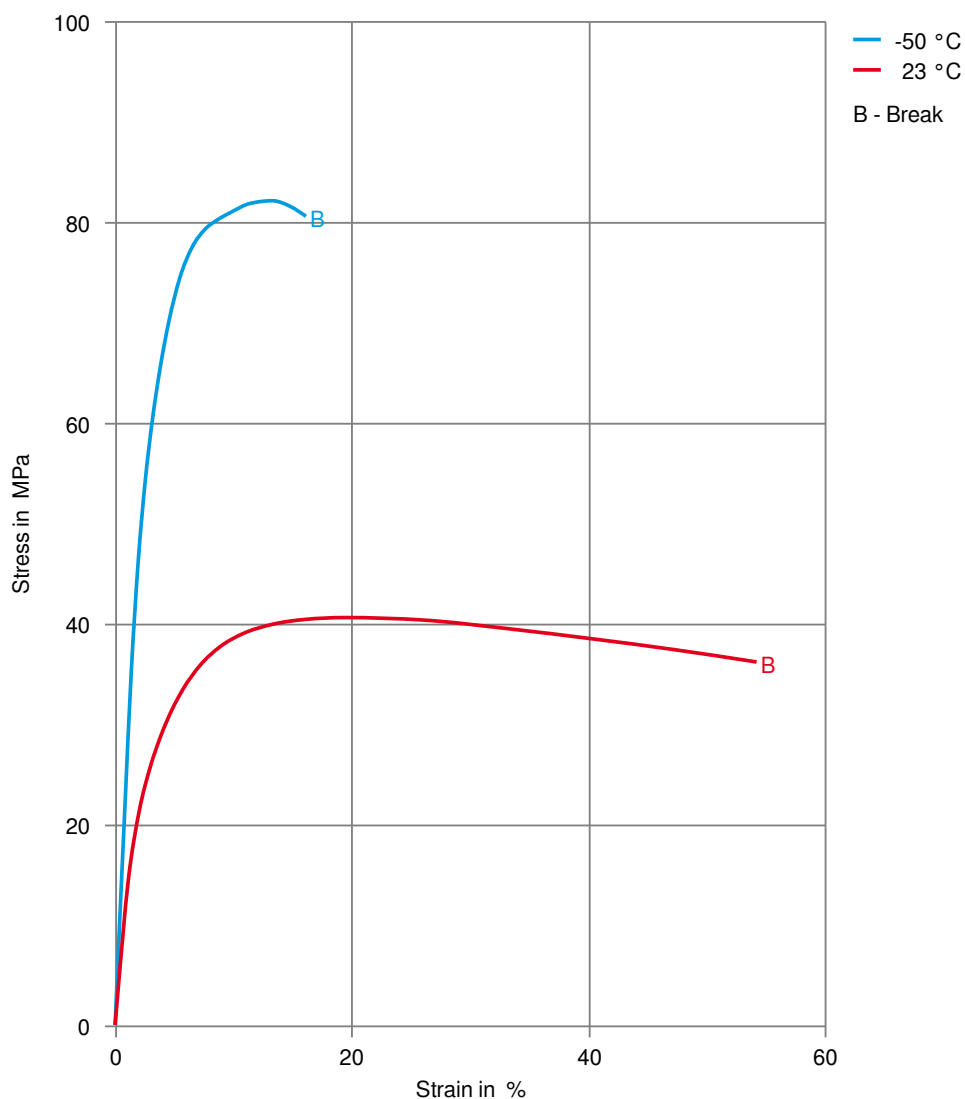
Delivery form

Pellets, Powder

Special characteristics

High impact or impact modified, Light stabilised or stable to light

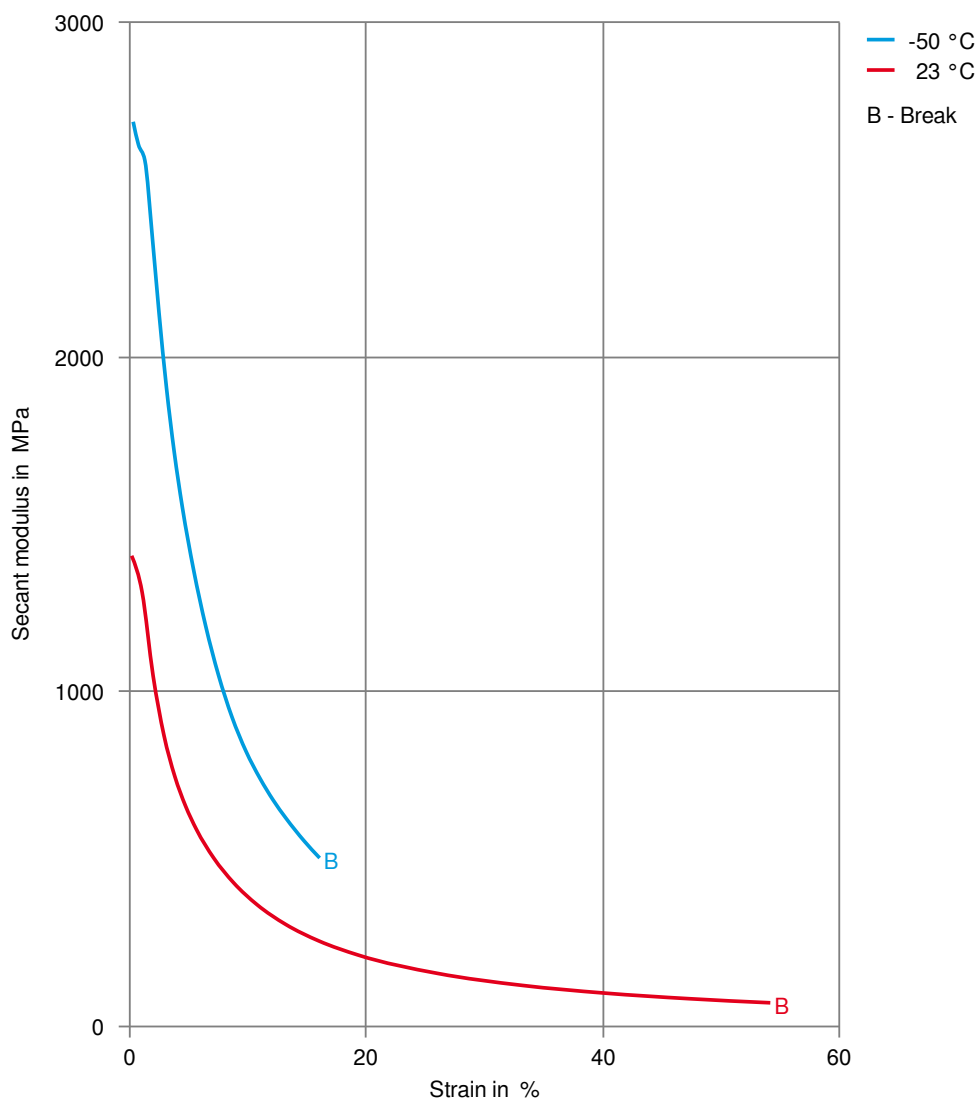
Stress-strain



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Secant modulus-strain



Printed: 2025-05-30

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Revised: 2025-03-10 Source: Celanese Materials Database

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