

GUR[®] HOSTALLOY™ 731

Melt processable HMW-PE pellet grade

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Product information

Average molecular weight	240000 g/mol	Margolies' equation
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Rheological properties

Melt mass-flow rate	10 g/10min	ISO 1133
Melt mass-flow rate, Temperature	190 °C	
Melt mass-flow rate, Load	21.6 kg	
Viscosity number	280 cm ³ /g	ISO 307, 1157, 1628
Intrinsic viscosity	275	ISO 307, 1157, 1628

Typical mechanical properties

Tensile Modulus	1100 MPa	ISO 527-1/-2
Yield stress, 50mm/min	26 MPa	ISO 527-1/-2
Yield strain, 50mm/min	9 %	ISO 527-1/-2
Stress at 50% strain	16 MPa	ISO 527-1/-2
Stress at break, 50mm/min	28 MPa	ISO 527-1/-2
Nominal strain at break	700 %	ISO 527-1/-2
Elongational stress, 150/10	<0.05 MPa	ISO 21304-2
Flexural Modulus	1000 MPa	ISO 178
Flexural Stress at 3.5%	20 MPa	ISO 178
Charpy double notched impact strength, 23°C	15 kJ/m ²	ISO 21304-2
Shore D hardness, 15s	60	ISO 48-4 / ISO 868

Tribological properties

Relative Wear (based on GUR 4120=100), sandslurry method	380	Internal
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Thermal properties

Temp. of deflection under load, 1.8 MPa	40 °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	80 °C	ISO 306

Other properties

Density	950 kg/m ³	ISO 1183
Bulk density	500 kg/m ³	ISO 60

Injection

Melt Temperature Optimum	230 °C	Internal
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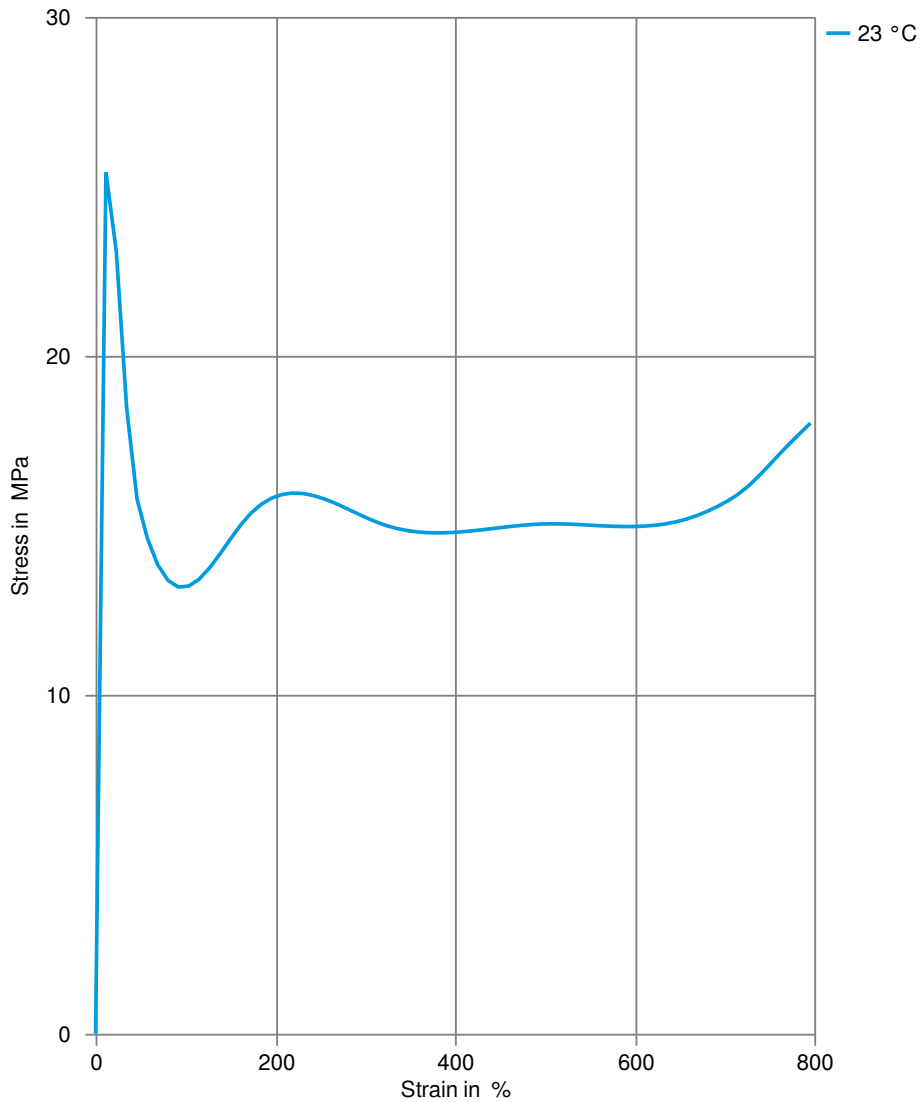
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Characteristics

Additives

Nucleated

Stress-strain



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Secant modulus-strain

