

GUR® HOSTALLOY™ 731

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Melt processable HMW-PE pellet grade

Product information

Resin Identification	(PE-HD)	ISO 1043
Part Marking Code	>(PE-HD)<	ISO 11469
Average molecular weight	240000 g/mol	Margolies' equation

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 cm³/g	ISO 307, 1628

Typical mechanical properties

Tensile modulus	1100 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	26 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9 %	ISO 527-1/-2
Tensile stress at 50% strain	16 MPa	ISO 527-1/-2
Tensile stress at break, 50mm/min	28 MPa	ISO 527-1/-2
Nominal strain at break	700 %	ISO 527-1/-2
Elongational stress F, 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/m²	ISO 21304-2
Poisson's ratio	0.45 ^[C]	
Shore D hardness, 15s	60	ISO 48-4 / ISO 868

[C]: Calculated

Tribological properties

Wear by sandslurry method (based on GUR 4120=100)	380
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Thermal properties

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

Physical/Other properties

Density	950 kg/m³	ISO 1183
Bulk density	500 kg/m³	ISO 60

Injection

Ejection temperature	112 °C
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Characteristics

Processing	Injection Moulding, Extrusion
Delivery form	Pellets, Granules

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Additives

Nucleated

Special characteristics

High impact or impact modified, Hydrolysis resistant, Low wear / Low friction,
Chemical resistant

Additional information

Processing Notes

Pre-Drying

Not needed

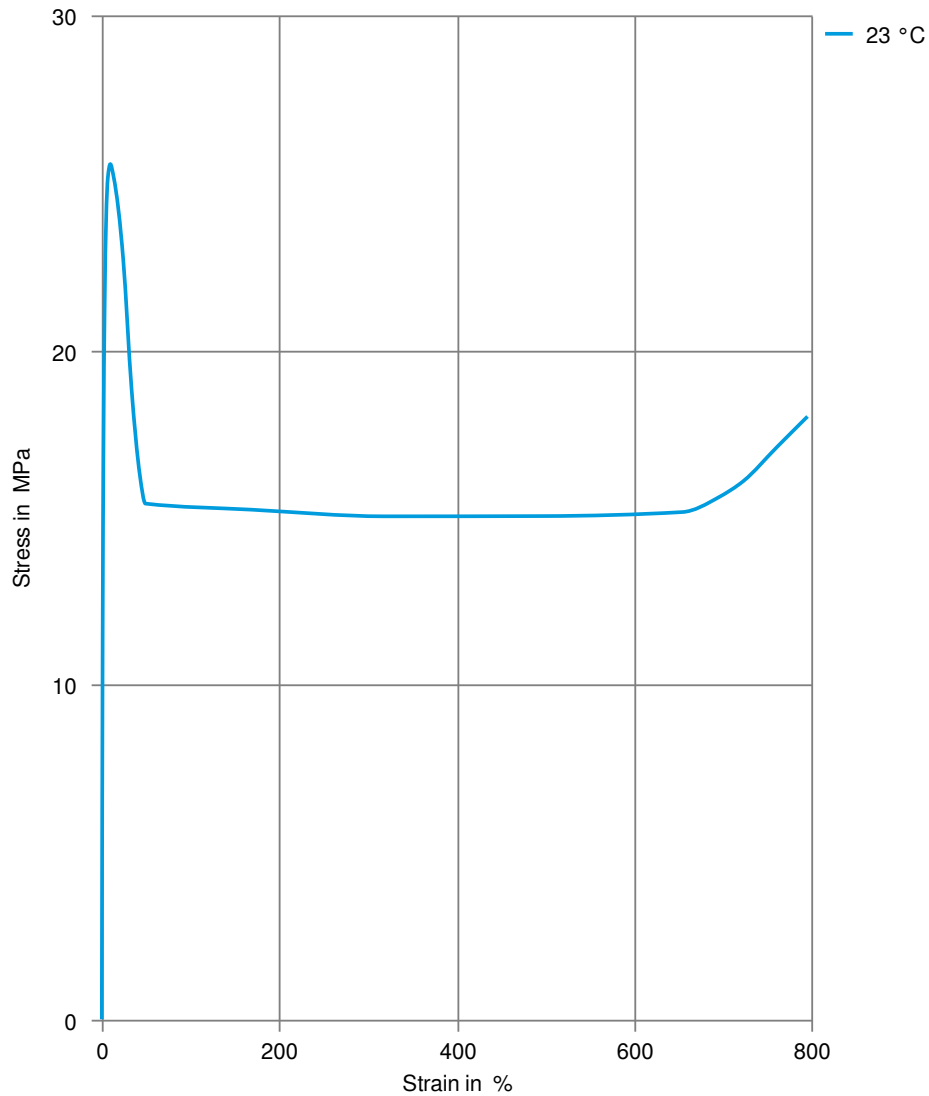
Storage

None

Stress-strain

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Secant modulus-strain

