

# GUR<sup>®</sup> 5129

## GUR<sup>®</sup>

Melt processable UHMW-PE pellet grade

Some of the listed data have been determined from the virgin powder.

### Product information

Resin Identification	(PE-UHMW)	ISO 1043
Part Marking Code	>(PE-UHMW)<	ISO 11469
Average molecular weight	3.4E6 g/mol	Margolies' equation

### Rheological properties

Viscosity number	1800 cm <sup>3</sup> /g	ISO 307, 1628
Intrinsic viscosity	1600	ISO 307, 1628

### Typical mechanical properties

Tensile modulus	900 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	23 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	11 %	ISO 527-1/-2
Tensile stress at 50% strain	20 MPa	ISO 527-1/-2
Tensile stress at break, 50mm/min	34 MPa	ISO 527-1/-2
Nominal strain at break	420 %	ISO 527-1/-2
Charpy double notched impact strength, 23°C	140 kJ/m <sup>2</sup>	ISO 21304-2
Poisson's ratio	0.45 <sup>[C]</sup>	

[C]: Calculated

### Tribological properties

Wear by sandslurry method (based on GUR 4120=100)	155
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### Thermal properties

Vicat softening temperature, 50°C/h 50N	80 °C	ISO 306
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### Flammability

Burning Behav. at 1.5mm nom. thickn.	HB class	IEC 60695-11-10
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### Electrical properties

Volume resistivity	1E12 Ohm.m	IEC 62631-3-1
Surface resistivity	1E12 Ohm	IEC 62631-3-2

### Physical/Other properties

Density	940 kg/m <sup>3</sup>	ISO 1183
Bulk density	500 kg/m <sup>3</sup>	ISO 60

### Characteristics

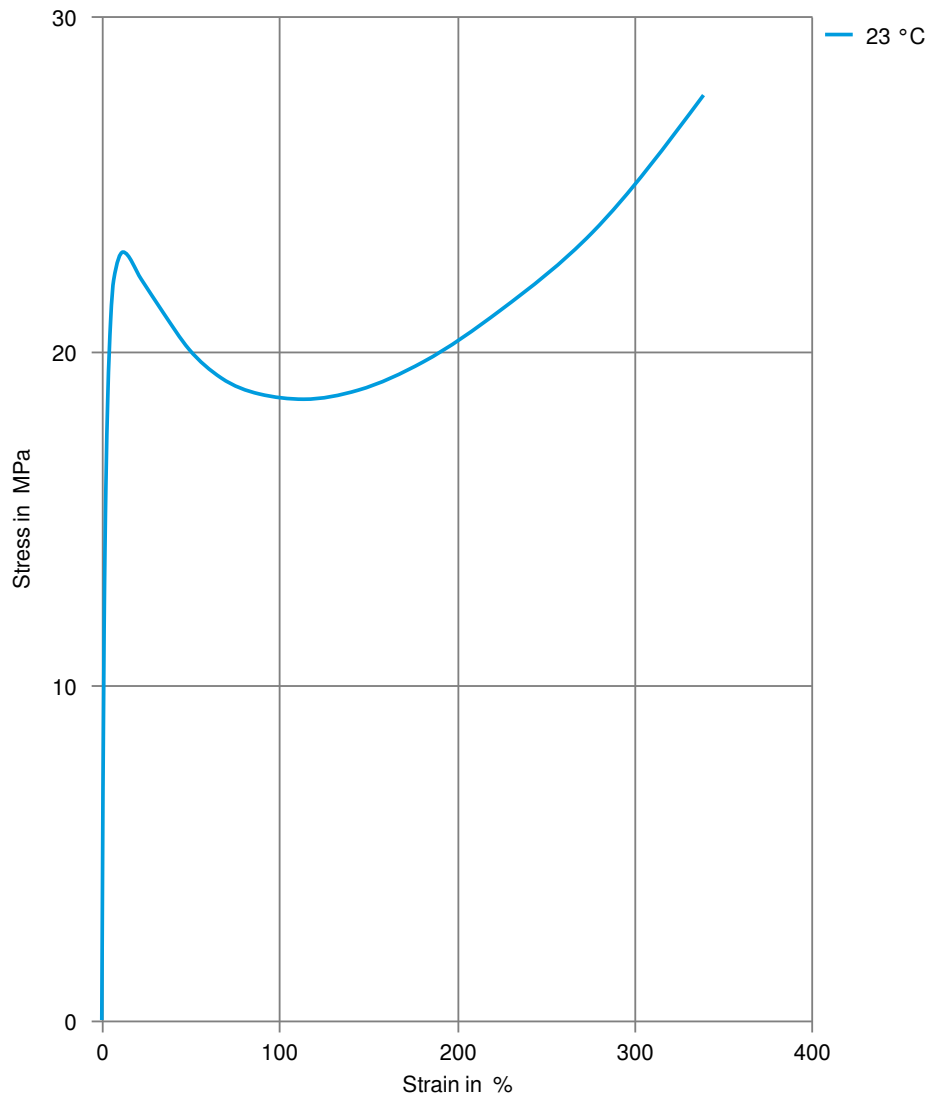
Processing	Injection Moulding
Delivery form	Pellets
Special characteristics	High impact or impact modified, Hydrolysis resistant, Low wear / Low friction,

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Chemical resistant

## Stress-strain



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## Secant modulus-strain

