

# GUR<sup>®</sup> 2126-2

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UHMW-PE powder grade: very small hydrophilic particle, special particle morphology

## Product information

Resin Identification	(PE-UHMW)	ISO 1043
Part Marking Code	>(PE-UHMW)<	ISO 11469
Average molecular weight	4.2E6 g/mol	Margolies' equation
Average particle size, d50	30 μm	laser scattering

## Rheological properties

Viscosity number	2100 cm <sup>3</sup> /g	ISO 307, 1628
Intrinsic viscosity	1900	ISO 307, 1628

## Typical mechanical properties

Tensile modulus	770 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	21 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	13 %	ISO 527-1/-2
Tensile stress at 50% strain	20 MPa	ISO 527-1/-2
Tensile stress at break, 50mm/min	39 MPa	ISO 527-1/-2
Nominal strain at break	400 %	ISO 527-1/-2
Elongational stress F, 150/10	0.21 MPa	ISO 21304-2
Charpy double notched impact strength, 23°C	140 kJ/m <sup>2</sup>	ISO 21304-2
Poisson's ratio	0.46 <sup>[C]</sup>	

[C]: Calculated

## Tribological properties

Wear by sandslurry method (based on GUR 4120=100)	100
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## Physical/Other properties

Density	930 kg/m <sup>3</sup>	ISO 1183
Bulk density	280 kg/m <sup>3</sup>	ISO 60

## Characteristics

Delivery form	Micropowder
Special characteristics	High impact or impact modified, Hydrolysis resistant, Low wear / Low friction, Chemical resistant, Hydrophilic