

GUR® 2126-2

Hydrophilic, very fine particle size, low bulk density UHMW-PE powder grade
 Hydrophilic, very fine particle size, low bulk density UHMW-PE powder grade, additive in thermoplastics and rubbers / additive in paints and lacquers

Product information

Average molecular weight	4.2E6 g/mol	Margolies' equation
Average particle size, D50	30 µm	laser scattering

Rheological properties

Melt mass-flow rate, Temperature	190 °C	
Melt mass-flow rate, Load	21.6 kg	
Viscosity number	2100 cm³/g	ISO 307, 1157, 1628
Intrinsic viscosity	1900	ISO 307, 1157, 1628

Typical mechanical properties

Tensile Modulus	770 MPa	ISO 527-1/-2
Yield stress, 50mm/min	21 MPa	ISO 527-1/-2
Yield strain, 50mm/min	13 %	ISO 527-1/-2
Stress at 50% strain	20 MPa	ISO 527-1/-2
Stress at break, 50mm/min	39 MPa	ISO 527-1/-2
Nominal strain at break	400 %	ISO 527-1/-2
Elongational stress, 150/10	0.21 MPa	ISO 21304-2
Charpy double notched impact strength, 23°C	140 kJ/m²	ISO 21304-2

Tribological properties

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

Density	930 kg/m³	ISO 1183
Bulk density	280 kg/m³	ISO 60

