

# GUR<sup>®</sup> 2105

Low bulk density HMW-PE powder grade  
 Low bulk density HMW-PE powder grade for carbon block

## Product information

Average molecular weight	400000 g/mol	Margolies' equation
Average particle size, D50	110 µm	laser scattering

## Rheological properties

Melt mass-flow rate	3.6 g/10min	ISO 1133
Melt mass-flow rate, Temperature	190 °C	
Melt mass-flow rate, Load	21.6 kg	
Viscosity number	400 cm <sup>3</sup> /g	ISO 307, 1157, 1628
Intrinsic viscosity	400	ISO 307, 1157, 1628

## Typical mechanical properties

Tensile Modulus	1200 MPa	ISO 527-1/-2
Yield stress, 50mm/min	27 MPa	ISO 527-1/-2
Yield strain, 50mm/min	10 %	ISO 527-1/-2
Stress at 50% strain	18 MPa	ISO 527-1/-2
Stress at break, 50mm/min	34 MPa	ISO 527-1/-2
Nominal strain at break	770 %	ISO 527-1/-2
Elongational stress, 150/10	0.01 MPa	ISO 21304-2
Charpy double notched impact strength, 23°C	30 kJ/m <sup>2</sup>	ISO 21304-2
Shore D hardness, 15s	63	ISO 48-4 / ISO 868

## Tribological properties

Relative Wear (based on GUR 4120=100), sandslurry method	320	Internal
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## Thermal properties

Temp. of deflection under load, 1.8 MPa	44 °C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	80 °C	ISO 306

## Electrical properties

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

## Other properties

Density	950 kg/m <sup>3</sup>	ISO 1183
Bulk density	240 kg/m <sup>3</sup>	ISO 60

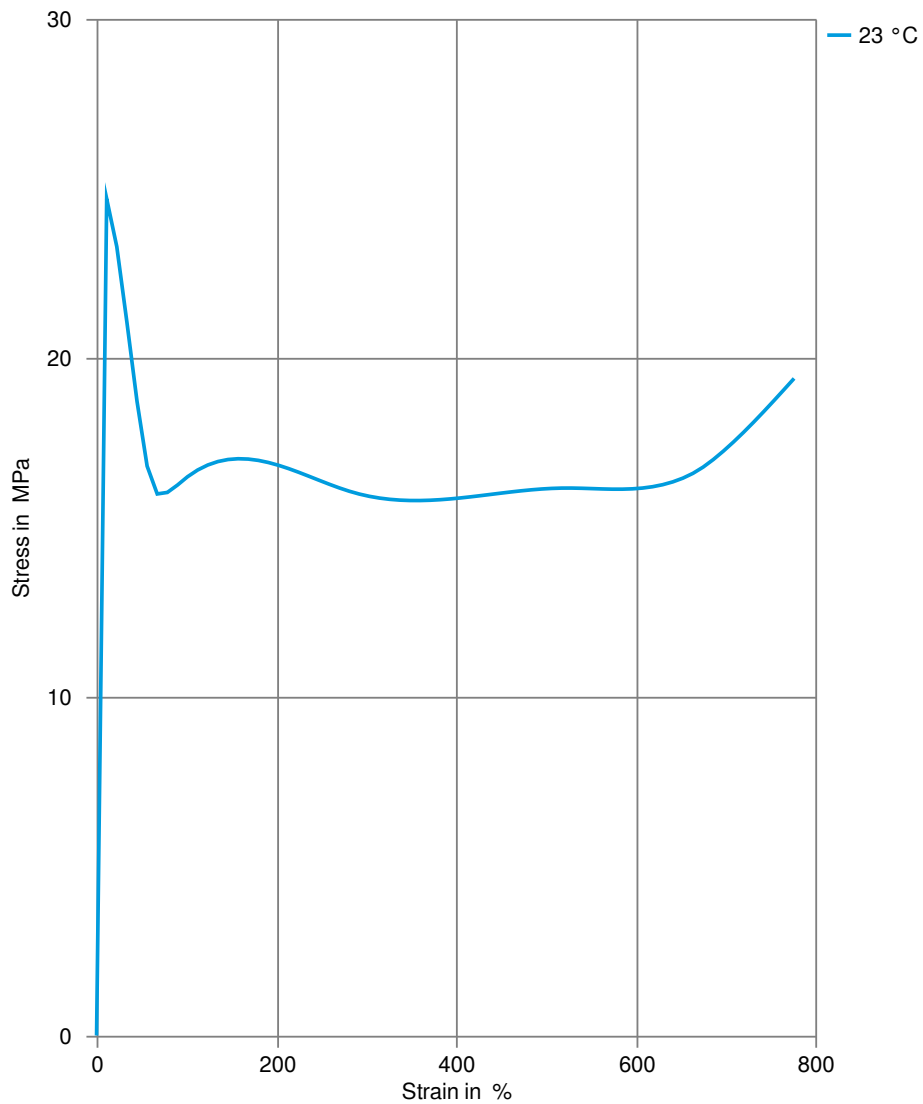
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## Characteristics

Food contact

FDA 21 CFR

## Stress-strain



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## Secant modulus-strain

