

GUR® 2126

Very fine particle size, low bulk density UHMW-PE powder grade

Fine particle size, low bulk density UHMW-PE powder grade for filtration, carbon block, film additive in PP or PE

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	0.19 MPa	ISO 21304-2
Charpy double notched impact strength, 23°C	140 kJ/m²	ISO 21304-2
Shore D hardness, 15s	60	ISO 48-4 / ISO 868

Tribological properties

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

Thermal properties

Temp. of deflection under load, 1.8 MPa	41 °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	930 kg/m³	ISO 1183
Bulk density	280 kg/m³	ISO 60



GUR® 2126

Characteristics

Food contact

FDA 21 CFR

