

GUR® 4020-3

Fine particle UHMW-PE powder grade
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Product information

Average molecular weight	5.4E6 g/mol	Margolies' equation
Average particle size, D50	55 µm	laser scattering

Rheological properties

Melt mass-flow rate, Temperature	190 °C	
Melt mass-flow rate, Load	21.6 kg	
Viscosity number	2500 cm³/g	ISO 307, 1157, 1628
Intrinsic viscosity	2200	ISO 307, 1157, 1628

Typical mechanical properties

Elongational stress, 150/10	0.23 MPa	ISO 21304-2
Shore D hardness, 15s	60	ISO 48-4 / ISO 868

Thermal properties

Temp. of deflection under load, 1.8 MPa	38 °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	440 kg/m³	ISO 60

Characteristics

Food contact	FDA 21 CFR
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