

## GUR<sup>®</sup> 2022 Fines

## GUR®

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

Product information Resin Identification Part Marking Code Average molecular weight Average particle size, d50	(PE-UHMW) >(PE-UHMW)< 3.5E6 60	g/mol µm	ISO 1043 ISO 11469 Margolies' equation laser scattering
Rheological properties Viscosity number Intrinsic viscosity	1800 1650	cm <sup>3</sup> /g	ISO 307, 1628 ISO 307, 1628
Typical mechanical properties Tensile modulus Tensile stress at yield, 50mm/min Tensile strain at yield, 50mm/min Tensile stress at 50% strain Tensile stress at break, 50mm/min Nominal strain at break Elongational stress F, 150/10 Charpy double notched impact strength Poisson's ratio Shore D hardness, 15s [C]: Calculated	20 15 20 39 390 0.2	MPa MPa	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 21304-2 ISO 21304-2 ISO 21304-2
Tribological properties Wear by sandslurry method (based on GUR 4120=100) Thermal properties	100		
Temperature of deflection under load, 1 Vicat softening temperature, 50°C/h 50		0° 0°	ISO 75-1/-2 ISO 306
Electrical properties Volume resistivity Surface resistivity	1E12 1E12	Ohm.m Ohm	IEC 62631-3-1 IEC 62631-3-2
Physical/Other properties Density Bulk density		kg/m³ kg/m³	ISO 1183 ISO 60
Characteristics			
Delivery form	Dther Extrusion, Porous Sintering Micropowder High impact or impact modified, H	lydrolysis resistant, Low wea	r / Low friction,

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(+) **18816996168** Ponciplastics.com



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Chemical resistant

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