

## GUR<sup>®</sup> 4032

GUR®

UHMW-PE powder grade

Product information Resin Identification Part Marking Code Average molecular weight Average particle size, d50	(PE-UHMW) >(PE-UHMW)< 5.7E6 145		ISO 1043 ISO 11469 Margolies' equation laser scattering
Rheological properties			
Viscosity number Intrinsic viscosity	2700 2300	cm³/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	21 13 21 37 340 0.28	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)	100		
Thermal properties	1.9 MDa 41	°C	
Temperature of deflection under load, Vicat softening temperature, 50°C/h 50		°C	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			
Processing	Other Extrusion, Fibre spinning / C	Gel spinning, Gel Extrusion, F	Porous Sintering

 Delivery form
 Powder

 Special characteristics
 High impact or impact modified, Hydrolysis resistant, Low wear / Low friction, Chemical resistant

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(+) **18816996168** Ponciplastics.com



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