

GUR[®] 2126

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)< 4.2E6 30	g/mol µm	ISO 1043 ISO 11469 Margolies' equation laser scattering
Rheological properties				
Viscosity number Intrinsic viscosity		2100 1900	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 streng Poisson's ratio Shore D hardness, 15s [C]: Calculated	th, 23°C	21 13 20 39 400 0.19	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 48-4 / ISO 868
Tribological properties				
Wear by sandslurry method (based on GUR 4120=100)		100		
Thermal properties Temperature of deflection under load, 1.8 MPa		41	°C	ISO 75-1/-2
Vicat softening temperature, 50 °C/h 50N			°C	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	Porous Sinteri	ng		
Delivery form	Micropowder			
Special characteristics	High impact or Chemical resis		lydrolysis resis	stant, Low wear / Low friction,

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