

GUR[®] 4022 S

GUR®

UHMW-PE powder grade

| Product information Resin Identification Part Marking Code Average molecular weight | (PE-UHMW) >(PE-UHMW)< 5.4E6 | 0 | ISO 1043 ISO 11469 Margolies' equation |
|---|--|--------------------|---|
| Average particle size, d50 | 115 | μm | laser scattering |
| Rheological properties | | | |
| Viscosity number Intrinsic viscosity | 2600 2200 | cm ³ /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 | 21 13 21 44 410 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 |
| [C]: Calculated | | | |
| Tribological properties | | | |
| Wear by sandslurry method (based on GUR 4120=100) Thermal properties | 100 | | |
| Temperature of deflection under load, Vicat softening temperature, 50°C/h 5 | | °C 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 | Fibre spinning / Gel spinning, Gel Extrusion, 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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