



GUR® 4152

GUR®

UHMW-PE powder grade for sheet and profile, film additive in PP or PE

| | | 400 | | | |
|---|-----|------|-------|------|--------|
| D | roc | けいいた | infor | mati | l n |
| | LUU | JUGE | шиот | mai | IUI I |

| Resin Identification | (PE-UHMW) | | ISO 1043 |
|----------------------------|-------------|-----|---------------------|
| Part Marking Code | >(PE-UHMW)< | | ISO 11469 |
| Average molecular weight | 7.6E6 g/s | mol | Margolies' equation |
| Average particle size, d50 | 180 µn | n | laser scattering |

Rheological properties

| Viscosity number | 3300 cm ³ /g | ISO 307, 1628 |
|---------------------|-------------------------|---------------|
| Intrinsic viscosity | 2800 | ISO 307, 1628 |

Typical mechanical properties

| 7 4 / 0 |
|---------|
| 7-1/-2 |
| 7-1/-2 |
| 7-1/-2 |
| 7-1/-2 |
| 7-1/-2 |
| 304-2 |
| 304-2 |
| |
| S68 C |
| |
| |

Tribological properties

Wear by sandslurry method 95 (based on GUR 4120=100)

Thermal properties

| Temperature of deflection under load, 1.8 MPa | 41 °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 |

Physical/Other properties

| Density | 930 kg/m³ | ISO 1183 |
|--------------|-----------------------|----------|
| Bulk density | 480 kg/m ³ | ISO 60 |

Characteristics

Processing Extrusion, Ram Extrusion, Other Extrusion, Compression moulding, Fibre spinning /

Gel spinning, Gel Extrusion

Delivery form Powder

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

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Chemical resistant

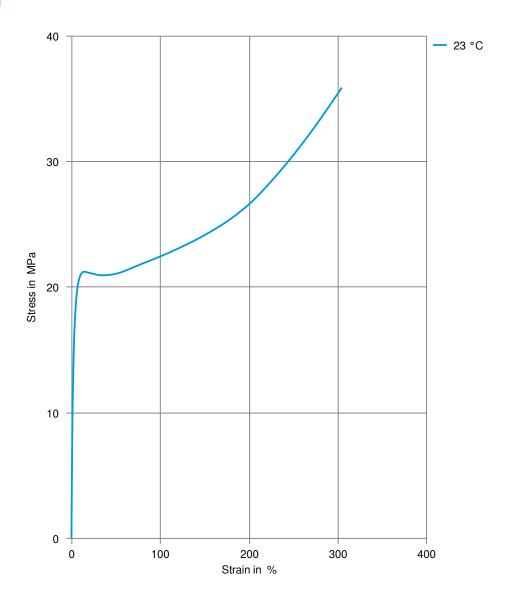
Additional information

Compression molding

Processing

This polymer is normally processed by Compression Molding or RAM extruding.

Stress-strain



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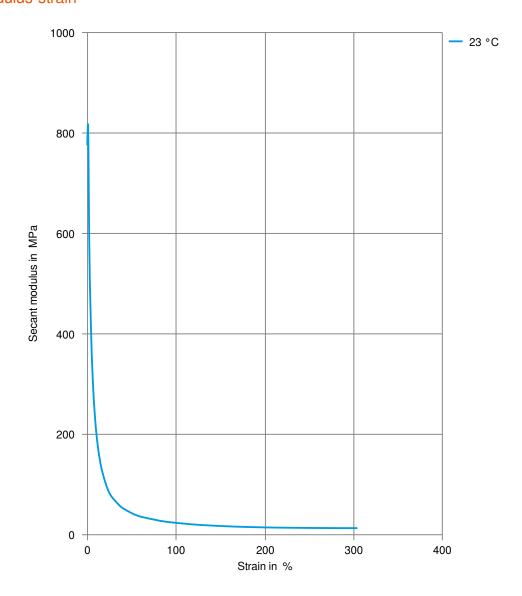
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Secant modulus-strain



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