

GUR[®] 4050-3 L

GUR®

UHMW-PE powder grade: small particle

Product information Resin Identification Part Marking Code Average molecular weight Average particle size, d50		g/mol µm	ISO 1043 ISO 11469 Margolies' equation laser scattering
Rheological properties			
Viscosity number Intrinsic viscosity	3200 2700	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	18 15 18 36 380 0.5	MPa kJ/m²	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	85		
Temperature of deflection under load Vicat softening temperature, 50°C/h		°C °C	ISO 75-1/-2 ISO 306
Electrical properties	1510	Ohm m	
Volume resistivity Surface resistivity		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 Sintering		
Delivery form	Powder, Micropowder		

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

Printed: 2025-05-30

Special characteristics

Chemical resistant

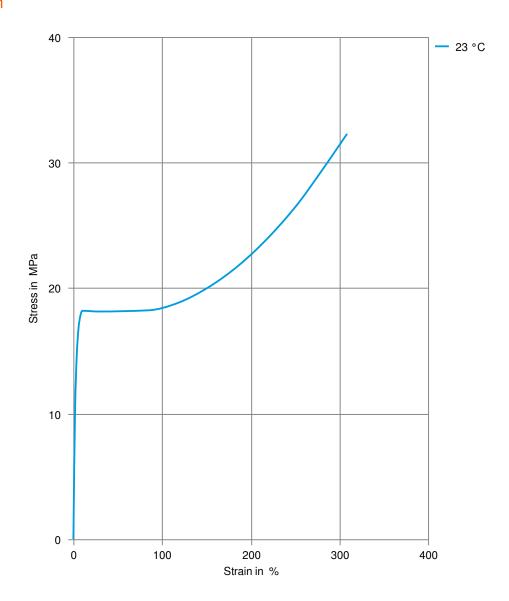




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Stress-strain

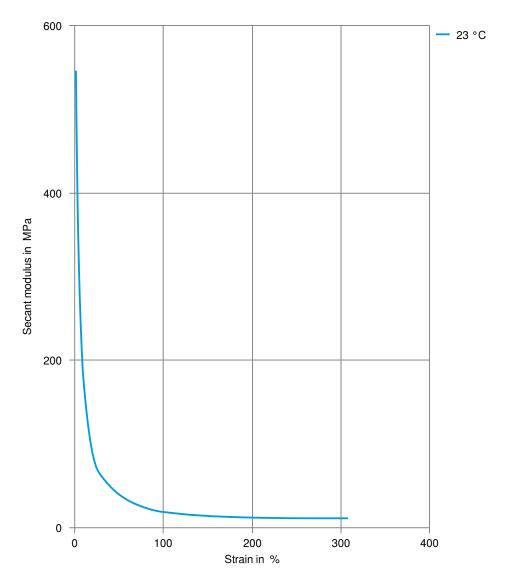




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Secant modulus-strain



Printed: 2025-05-30

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Revised: 2024-08-22 Source: Celanese Materials Database

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