

GUR[®] 402M13

GUR®

UHMW-PE powder grade with high puncture strength for LIBS application

Product information

Resin Identification Part Marking Code Average molecular weight	(PE-UHMW) >(PE-UHMW)< 2.3E6	g/mol	ISO 1043 ISO 11469 Margolies' equation
Average particle size, d50	115	μm	laser scattering
Rheological properties			
Viscosity number Intrinsic viscosity	1350 1250	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		MPa MPa %	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2
Tensile stress at 50% strain	= -	MPa MPa	ISO 527-1/-2
Tensile stress at break, 50mm/min Nominal strain at break	40 470		ISO 527-1/-2 ISO 527-1/-2
Charpy double notched impact strength, 23°C Poisson's ratio		kJ/m²	ISO 21304-2
Shore D hardness, 15s [C]: Calculated	60		ISO 48-4 / ISO 868
Tribological properties			
Wear by sandslurry method (based on GUR 4120=100)	140		
Thermal properties			
Temperature of deflection under load, 1.8 MPa Vicat softening temperature, 50°C/h 50N		°C °C	ISO 75-1/-2 ISO 306
Vical solitening temperature, 50° 0/11 5014	00	0	
Physical/Other properties			
Density		kg/m³	ISO 1183
Bulk density	450	kg/m³	ISO 60
Characteristics			
Processing Film Ext	rusion		
Delivery form Powder			

Chemical resistant

Special characteristics

(+) **18816996168** Ponciplastics.com



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