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$GUR^{\texttt{B}} \; X \; 195_{(\texttt{PRELIMINARY})}$

GUR®

UHMW-PE powder grade for fibers

Product information Resin Identification Part Marking Code Average molecular weight Average particle size, d50	(PE-UHMW) >(PE-UHMW)< 7.6E6 150	-	ISO 1043 ISO 11469 Margolies' equation laser scattering
Rheological properties			
Viscosity number Intrinsic viscosity	3300 2800	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 strength, 2 Poisson's ratio Shore D hardness, 15s [C]: Calculated	21 13 21 36 300 0.37	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
Tribological properties			
Wear by sandslurry method (based on GUR 4120=100) Thermal properties	95		
Temperature of deflection under load, 1.8		°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	80	°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 Fib	re spinning / Gel spinning, Gel	Extrusion	
Delivery form Por	wder		

Delivery form Powder Special characteristics High impact or impact modified, Hydrolysis resistant, Low wear / Low friction, Chemical resistant

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