

GUR® 4018 P

GUR®

Melt processable HMW-PE powder grade

Product information

Resin Identification	(PE-HMW)	ISO 1043
Part Marking Code	>(PE-HMW)<	ISO 11469
Average molecular weight	600000 g/mol	Margolies' equation
Average particle size, d50	110 µm	laser scattering

Rheological properties

Melt mass-flow rate	1.1 g/10min	ISO 1133
Melt mass-flow rate, Temperature	190 °C	
Melt mass-flow rate, Load	21.6 kg	

Typical mechanical properties

Charpy double notched impact strength, 23°C	45 kJ/m ²	ISO 21304-2
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Tribological properties

Wear by sandslurry method (based on GUR 4120=100)	250
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Physical/Other properties

Density	950 kg/m ³	ISO 1183
Bulk density	450 kg/m ³	ISO 60

Characteristics

Processing	Injection Moulding, Porous Sintering
Delivery form	Powder
Special characteristics	Hydrolysis resistant, Low wear / Low friction, Chemical resistant