

## GUR® X 242 - PE-UHMW

Physical properties	Value	Unit	Test Standard
Elongational Stress F, 150/10	10.2	psi	ISO 21304-2
Average molecular weight	2E6	g/mol	Margolies' Equation
Density	58.7	lb/ft <sup>3</sup>	ISO 1183
MFR temperature	374	°F	ISO 1133
MFR load	47.6	lb	ISO 1133
Intrinsic viscosity	31800	in <sup>3</sup> /lb	ISO 1628-3
Viscosity number (PE and PP)	33200	in <sup>3</sup> /lb	ISO 1628-3
Average particle size, d50	115	µm	Laser scattering

Mechanical properties	Value	Unit	Test Standard
Charpy double 14° v-notch strength, 23°C	102	ft-lb/in <sup>2</sup>	ISO 21304-2
Wear by sandslurry method (based on GUR 4120=100)	140	-	Internal
Tensile stress at yield	3340	psi	ISO 527-2/1B
Tensile strain at yield	13	%	ISO 527-2/1B
Tensile stress at 50% strain	2900	psi	ISO 527-2/1B
Tensile stress at break	5220	psi	ISO 527-2/1B
Tensile nominal strain at break	400	%	ISO 527-2/1B

Thermal properties	Value	Unit	Test Standard
Vicat softening temperature, 50°C/h 50N	176	°F	ISO 306

Electrical properties	Value	Unit	Test Standard
Volume resistivity, 23°C	>1E12	Ohm*m	IEC 62631-3-1
Surface resistivity, 23°C	>1E12	Ohm	IEC 62631-3-2

### Characteristics

**Processing**                      Injection molding