

GUR® X 200 - PE-HMW

Physical properties	Value	Unit	Test Standard
Elongational Stress F, 150/10	<0.05	psi	ISO 21304-2
Average molecular weight	250000	g/mol	Margolies' Equation
Density	59.3	lb/ft ³	ISO 1183
Melt flow rate, MFR	17	g/10min	ISO 1133
MFR temperature	374	°F	ISO 1133
MFR load	47.6	lb	ISO 1133
Intrinsic viscosity	7750	in ³ /lb	ISO 1628-3
Viscosity number (PE and PP)	7750	in ³ /lb	ISO 1628-3
Average particle size, d50	110	µm	Laser scattering

Mechanical properties	Value	Unit	Test Standard
Charpy double 14° v-notch strength, 23°C	7.14	ft-lb/in ²	ISO 21304-2
Wear by sandslurry method (based on GUR 4120=100)	430	-	Internal
Tensile modulus	191000	psi	ISO 527-2/1B
Tensile stress at yield	4210	psi	ISO 527-2/1B
Tensile strain at yield	9	%	ISO 527-2/1B
Tensile stress at 50% strain	2320	psi	ISO 527-2/1B
Tensile stress at break	5080	psi	ISO 527-2/1B
Tensile nominal strain at break	1050	%	ISO 527-2/1B

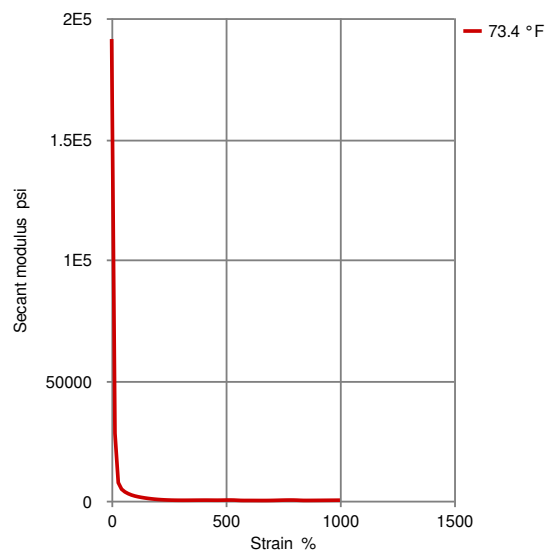
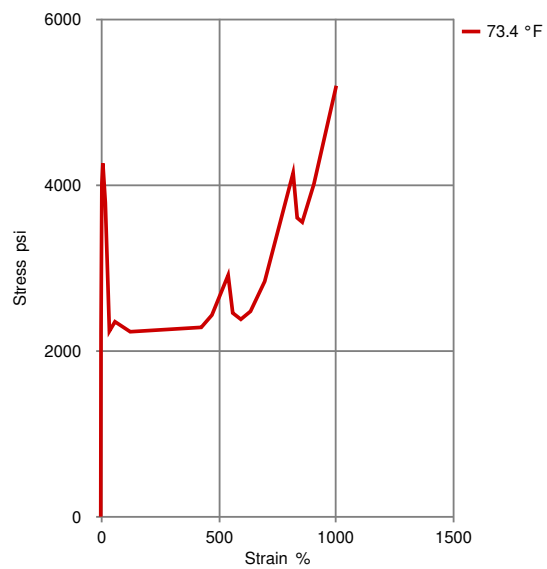
Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	118	°F	ISO 75-1, -2
Vicat softening temperature, 50°C/h 50N	172	°F	ISO 306

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

Diagrams

Stress-strain

Secant modulus-strain



Characteristics

Processing

Injection molding