

GUR® X 232 - PE-HMW

Physical properties	Value	Unit	Test Standard
Elongational Stress F, 150/10	2.9	psi	ISO 21304-2
Average molecular weight	1000000	g/mol	Margolies' Equation
Density	58.7	lb/ft ³	ISO 1183
MFR temperature	374	°F	ISO 1133
MFR load	47.6	lb	ISO 1133
Intrinsic viscosity	19400	in ³ /lb	ISO 1628-3
Viscosity number (PE and PP)	20800	in ³ /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	59.5	ft-lb/in ²	ISO 21304-2
Wear by sandslurry method (based on GUR 4120=100)	170	-	Internal
Tensile stress at yield	3480	psi	ISO 527-2/1B
Tensile strain at yield	11	%	ISO 527-2/1B
Tensile stress at 50% strain	2760	psi	ISO 527-2/1B
Tensile stress at break	5950	psi	ISO 527-2/1B
Tensile nominal strain at break	750	%	ISO 527-2/1B
Shore D hardness-TPE, 15s	61	-	ISO 868
Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	108	°F	ISO 75-1, -2
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

