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Celanese
The chemistry inside innovation™

GUR® X 203 - PE-HMW

Physical properties	Value	Unit	Test Standard
Elongational Stress F, 150/10	**34.8**	psi	ISO 21304-2
Average molecular weight	**4.4E6**	g/mol	Margolies' Equation
Density	**58.1**	lb/ft^3	ISO 1183
MFR temperature	**374**	°F	ISO 1133
MFR load	**47.6**	lb	ISO 1133
Intrinsic viscosity	**52600**	in^3/lb	ISO 1628-3
Viscosity number (PE and PP)	**60900**	in^3/lb	ISO 1628-3
Average particle size, d50	**170**	µm	Laser scattering

Mechanical properties	Value	Unit	Test Standard
Charpy double 14°v-notch strength, 23°C	**57.1**	ft-lb/in^2	ISO 21304-2
Wear by sandslurry method (based on GUR 4120=100)	**110**	-	Internal
Tensile modulus	**116000**	psi	ISO 527-2/1B
Tensile stress at yield	**3050**	psi	ISO 527-2/1B
Tensile strain at yield	**15**	%	ISO 527-2/1B
Tensile stress at 50% strain	**3050**	psi	ISO 527-2/1B
Tensile stress at break	**5950**	psi	ISO 527-2/1B
Tensile nominal strain at break	**380**	%	ISO 527-2/1B

Characteristics

Processing Injection molding