

GUR® HOSTALLOY 731 - PE-HD

Description

Melt processable HMW-PE pellet grade
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Physical properties	Value	Unit	Test Standard
Elongational Stress F, 150/10	<0.05	psi	ISO 21304-2
Average molecular weight	240000	g/mol	Margolies' Equation
Density	59.3	lb/ft ³	ISO 1183
Melt flow rate, MFR	10	g/10min	ISO 1133
MFR temperature	374	°F	ISO 1133
MFR load	47.6	lb	ISO 1133
Intrinsic viscosity	7610	in ³ /lb	ISO 1628-3
Viscosity number (PE and PP)	7750	in ³ /lb	ISO 1628-3
Average particle size, d50	Pellet	µm	Laser scattering

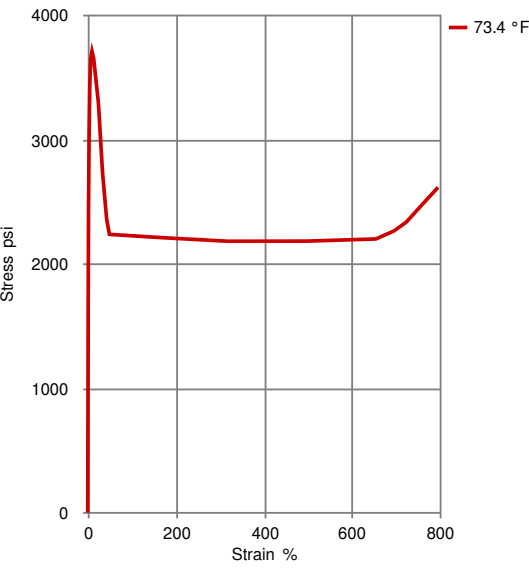
Mechanical properties	Value	Unit	Test Standard
Charpy double 14° v-notch strength, 23°C	7.14	ft-lb/in ²	ISO 21304-2
Wear by sandslurry method (based on GUR 4120=100)	380	-	Internal
Tensile modulus	160000	psi	ISO 527-2/1B
Tensile stress at yield	3770	psi	ISO 527-2/1B
Tensile strain at yield	9	%	ISO 527-2/1B
Tensile stress at 50% strain	2320	psi	ISO 527-2/1B
Tensile stress at break	4060	psi	ISO 527-2/1B
Tensile nominal strain at break	700	%	ISO 527-2/1B
Shore D hardness-TPE, 15s	60	-	ISO 868

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	104	°F	ISO 75-1, -2
Vicat softening temperature, 50°C/h 50N	176	°F	ISO 306

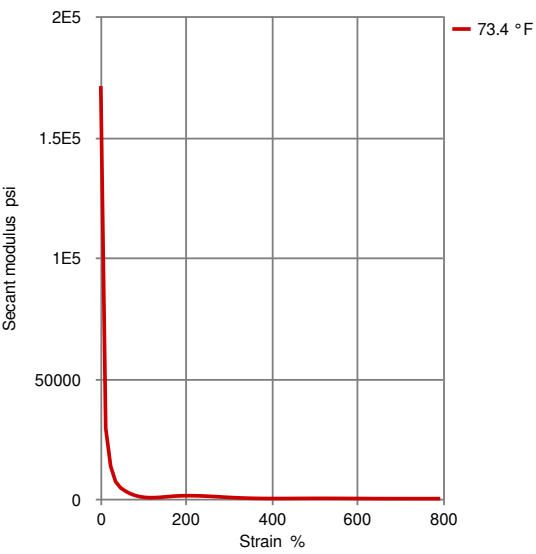
Diagrams



Stress-strain



Secant modulus-strain



Typical injection moulding processing conditions

Temperature	Value	Unit
Melt temperature	≤536	°F

Other text information

Pre-drying

Not needed

Longer pre-drying times/storage

None

Characteristics

Special Characteristics	Electrically conductive, Electrostatic dissipation, Heat resistant, High crystallinity, Hydrolysis resistant
Product Categories	Polymer blend, Specialty, Unfilled
Processing	Injection molding
Delivery Form	Pellets, Granules

