

GUR® GHR 8020 | PE-HD | Specialty

Description

GHR 8020 is a linear polyolefin in powder form with a molecular weight of approximately 300,000 g/mol calculated using Margolies' equation and a coarse particle size. It is mainly used for production of porous products. The average particle size is $d_{50} = 210 \pm 20 \mu\text{m}$. The bulk density is approx. 0.45 g/cm³.

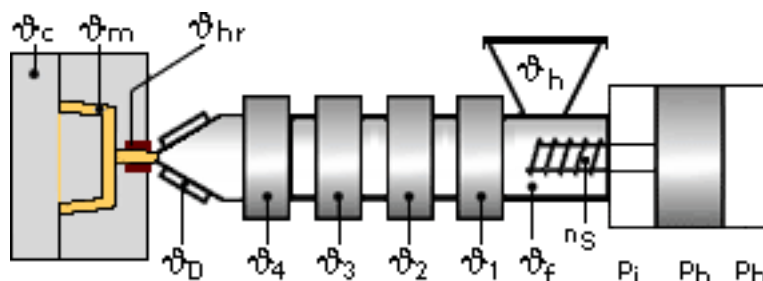
Mechanical properties	Value	Unit	Test Standard
Tensile stress at yield (50mm/min)	19	MPa	ISO 527-2/1A
Tensile strain at yield (50mm/min)	10	%	ISO 527-2/1A
Nominal strain at break (50mm/min)	>50	%	ISO 527-2/1A

Thermal properties	Value	Unit	Test Standard
Melting temperature (10°C/min)	133	°C	ISO 11357-1,-2,-3
Flammability @1.6mm nom. thickn. thickness tested (1.6)	HB 1.6	class mm	UL94 UL94

Processing properties	Value	Unit	Test Standard
Powder	Yes	-	ASTM D638

Test specimen production	Value	Unit	Test Standard
Comp. molding mold temperature	180	°C	ISO 293
Comp. molding cooling rate	15	K/min	ISO 293

Typical injection moulding processing conditions



Special Info:

Not for Injection Molding. See Ticona for processing.

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General Disclaimer

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values.

Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use.

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We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed (+49 (0) 69 30516299 for Europe and +1 859-372-3244 for the Americas) for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.

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