Original
Composites &
Fiberglass

HIPERGRON® N

High performance.
High strength.

HIPERGRON® N long glass fiber reinforced thermoplastic (LFTP) PP pellets offer excellent impact resistance and dimensional stability in thermoplastic injection molding applications. Engineered to produce low waste, HIPERGRON® N pellets deliver an outstanding appearance while standing up to high temperature and high pressure.

- Composite material consisting of long glass fiber impregnated with polypropylene (PP) resin.
- Produced with patented Advantex® corrosion-resistant E-CR glass.

Product Benefits

High Performance

- Optimizing glass fiber pellets for consistent quality and performance.

High Residual Fiber Length

- Superior strength and durability in injection molded parts.

Application

HIPERGRON® N pellets are specifically designed to be used in thermoplastic injection molding applications where strength is a priority, including household appliances, power tools, hand tools, and more. In addition, they are suitable for use in automobile components that require higher impact strength and lighter weight.

Availability & Packaging

PRODUCT NAME	GLASS CONTENT (%)	PELLET LENGTH (MM)	LOCATION
HIPERGRON® N	20, 30, 40, 55, 70	5, 8, 10, 12	Taloja

Please contact your technical representative for details. Material is available in 1,000 kg bulk bags and 25 kg individual bags.
Please contact Customer Service and Sales for more information.

HIPERGRON® N | INJECTION MOLDING | OCTOBER 2026

Technical Characteristics

PROPERTIES	TEST METHOD	UNIT	GLASS CONTENT (WT. %)		
			20	30	40
Specific Gravity	ISO1183	—	0.96	1.07	1.14
Tensile Strength	ISO527-2	MPa	131	156	191
Tensile Modulus	ISO527-2	GPa	6.5	7.5	10.1
Flexural Modulus of Elasticity	ISO178	GPa	5.2	6.8	9.4
Flexural Strength	ISO178	MPa	180	217	263
Charpy Impact Strength (V-notch)	ISO179	kJ/m^2	35.1	48.8	65.7
Elongation at Break	ISO527-2	%	2.4	2.3	1.9
HDT @ 0.45 MPa	ISO 75-2 :13	°C	167.3	168.3	170.6
HDT @ 1.8 MPa	ISO 75-2 :13	°C	163	164.2	164.2

- The data are representative values of injection molded samples made under specific conditions.
- The contents of this document are subject to change without notice for improvement.

This information and data contained herein is offered solely as a guide in the selection of product. Published product values are typical performance estimates and may vary by manufacturing location, production run, testing method, and application. Products are tested as part of our quality processes and manufactured to applicable specifications. Actual performance may vary. We reserve the right to update published values, specifications, and product characteristics without notice. All values are provided for informational purposes only and do not guarantee performance. Customers are responsible for determining the suitability of the product for their intended use and should conduct appropriate testing and evaluation. Except as otherwise provided in applicable sales terms & conditions, no warranties of any kind, express or implied, including those of merchantability and fitness for a particular purpose.

Suggested Injection Molding Parameters

PARAMETER	TEMPERATURE °C
Rear	220–240
Center	230–250
Front	240–260
Nozzle	230–250
Mold Temperature	30–50 °C
Screw Speed	40–60 rpm
Melt Temperature	235–260
Back Speed	Low
Injection Pressure	Low to Medium
Pre-Drying Temperature	80–100 °C
Pre-Drying Time	1–4 hours

Labeling

Each individual package label contains information regarding product name, production date, and production plant.

Storage

LFTP products should be stored in a cool, dry area, and they must remain in their original packaging until the point of use. The product should be transferred to the workshop in its original packaging 48 hours before use to allow it to acclimate to the workshop's environmental conditions. This is necessary to prevent condensation, especially in colder temperatures. The packaging is not waterproof. Be sure to protect the product from the weather and water sources. There is no known shelf life to the product when stored properly, but retesting is advised after three years from the initial production date to ensure optimum performance.

MAKE MORE POSSIBLE™

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This information and data contained herein is offered solely as a guide in the selection of product. We do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The physical and chemical properties of this product represent typical, average values obtained in accordance with stated test methods and are subject to normal manufacturing variations. The user agrees to be responsible for thoroughly testing any application of the product to determine its suitability. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law, safety code or insurance regulation. We reserve the right to modify this document without prior notice.

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