

**Gryfilen<sup>®</sup>**  
POLYPROPYLENE

**H25-NAS**  
HOMOPOLYMER

**DESCRIPTION**

Gryfilen<sup>®</sup> H25-NAS is nucleated polypropylene homopolymer designed for injection molding process.

Gryfilen<sup>®</sup> H25-NAS offers high flow and high stiffness. Nucleating agent in combination with antistatic agent provides short cycles, good dimensional stability of final articles and good mold release in the injection molding process.

**APPLICATION**

Caps & Closures; Tick-Walled Containers; Household; Kitchen; Toys; Furniture; Sports; Leisure & Garden Items.

**This grade is not intended for medical and pharmaceutical applications.**

**PROCESSING TECHNOLOGY**

Injection Molding.

|   | Value | Unit              | Method        |
|---|-------|-------------------|---------------|
| <b>PHYSICAL PROPERTIES</b>                            |       |                   |               |
| Melt Flow Rate, (230°C/2.16 kg)                       | 25    | g/10 min          | ISO 1133-1    |
| Density, (23°C)                                       | 0.9   | g/cm <sup>3</sup> | ISO 1183-1    |
| <b>MECHANICAL PROPERTIES</b>                          |       |                   |               |
| Flexural Modulus                                      | 1800  | MPa               | ISO 178       |
| Tensile Strength at Yield                             | 35    | MPa               | ISO 527-1, -2 |
| Tensile Elongation at Yield                           | 7     | %                 | ISO 527-1, -2 |
| Charpy Impact Strength, (notched; 23 °C)              | 2     | kJ/m <sup>2</sup> | ISO 179       |
| <b>THERMAL PROPERTIES</b>                             |       |                   |               |
| Heat Deflection Temperature B, (0.45 MPa, unannealed) | 110   | °C                | ISO 75-1/75-2 |

**NOTES**

The values have to be considered as to be indicative and do not represent specification values. The use in the indicated applications and processing technologies has to be verified by the converter (fit for purpose).

#### **DISCLAIMER**

Before using any product of Grupa Azoty Polyolefins S.A., its user shall independently and at its own risk assess whether the product is suitable for the intended use and ensure whether the product may be used safely and in accordance with applicable law.

The user of the product shall read the relevant Material Safety Data Sheet before using the product.

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