

# Advanced PP H244GX / 1101SC

Polypropylene Homopolymer

## Product Description

Advanced PP H244GX is a polypropylene homopolymer specifically engineered for fiber applications. It has exceptionally high melt flowability, facilitating efficient processing and consistent product characteristics. Advanced PP H244GX has a very narrow molecular weight distribution offering consistency in processing. Advanced PP H244GX exhibits good balance of mechanical properties and processability. These combined attributes make Advanced PP H244GX particularly well-suited for the high-speed production of fine titer spunbond nonwovens. The incorporation of an advanced phenol-free stabilizer package ensures exceptional gas fading resistance.

## General

### Typical Application

- Hygiene fabrics (diapers, wipes, medical gowns)
- Filtration media (air and liquid)
- Specialty nonwovens (composites, wipes)

### Product Features

- Excellent processability at high line speeds
- Consistent fiber diameter and nonwoven uniformity
- High gas fading resistance and inherent UV stability

### Regulatory Status

- Compliance with Reach regulation
- Compliance with FDA regulation
- Compliance with European Union Regulation (EU) 10/2011

| Type       | Properties                               | Unit                | Value | Test Method |
|------------|------------------------------------------|---------------------|-------|-------------|
| Resin      | Density                                  | g / cm <sup>3</sup> | 0.9   | ISO 1183    |
|            | Melt Flow Rate (MFR)                     | g / 10 min          | 35    | ISO 1133    |
| Mechanical | Tensile Modulus                          | MPa                 | 1450  | ISO 527-2   |
|            | Tensile Stress at Yield                  | MPa                 | 34    | ISO 527-2   |
|            | Tensile Strain at Yield                  | %                   | 8     | ISO 527-2   |
|            | Tensile Strain at Break                  | %                   | >50   | ISO 527-2   |
|            | Charpy Impact strength notched (+23°C)   | KJ / m <sup>2</sup> | 2.5   | ISO 179/1eA |
|            | Ball indentation hardness (H 358/30)     | MPa                 | 70    | ISO 2039-1  |
|            | Vicat Softening Temperature (A/50, 10 N) | °C                  | 154   | ISO 306     |
| Thermal    | Heat Deflection Temperature B, (.45 MPa) | °C                  | 85    | ISO 75-2    |

### Note:

Values presented in this technical data sheet are typical values obtained from product testing and should not be construed as product specifications or analytical certifications. These values are provided for reference only.

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