

# H44N-00 Polypropylene Homopolymer

H44N-00 is a high flow rate, nucleated polypropylene homopolymer designed for compounding and injection molding applications. The grade benefits from a high stiffness and isotropic shrinkage to help reduce warping in flat, thin parts.

## Typical Properties<sup>1</sup>

|                                    | Values        |                       | ASTM Method |
|------------------------------------|---------------|-----------------------|-------------|
|                                    | English Units | SI Units              |             |
| <b>Resin</b>                       |               |                       |             |
| Density                            | —             | 0.911 g/cc            | D792        |
| Melt Flow Rate 230°C/2.16 kg       | —             | 47 g/10 min           | D1238       |
| <b>Injection Molded Samples</b>    |               |                       |             |
| Tensile Strength (2 in/min)        |               |                       | D638        |
| @ Yield                            | 5,400 psi     | 37.3 MPa              |             |
| @ Break                            | 3,800 psi     | 26.2 MPa              |             |
| Elongation (2 in/min)              |               |                       | D638        |
| @ Yield                            | —             | 9 %                   |             |
| @ Break                            | —             | 25 %                  |             |
| Flexural Modulus                   |               |                       | D790A       |
| 1% Secant                          | 245,000 psi   | 1,690 MPa             |             |
| Notched Izod Impact Strength       |               |                       | D256        |
| @ 23 C                             | 0.4 ft-lbf/in | 2.4 kJ/m <sup>2</sup> |             |
| Hardness                           |               |                       | D785        |
| Rockwell R                         | —             | 107                   |             |
| Deflection Temperature             |               |                       | D648        |
| @ 66 psi (455 kPa)                 | 236 F         | 113 C                 |             |
| Haze @ 23°C, 50-mil (1.3mm) plaque |               |                       | D1003       |
| % Diffuse Transmittance            | —             | 76 %                  |             |
| Gloss at 60 ° angle                | —             | 93                    | D2457       |

<sup>1</sup> Typical properties will vary and are not to be used for specifications.