

# R12C-00 Polypropylene Random Copolymer

R12C-00 is a clarified medium melt flow rate, and lightly antistatic polypropylene copolymer designed for injection molding and stretch blow molding end-use applications. This material meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

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

|                                      | Values         |                       | ASTM Method |
|--------------------------------------|----------------|-----------------------|-------------|
|                                      | English Units  | SI Units              |             |
| <b>Resin</b>                         |                |                       |             |
| Density                              | —              | 0.903 g/cc            | D792        |
| Melt Flow Rate 230°C/2.16 kg         | —              | 12 g/10 min           | D1238       |
| <b>Injection Molded Sample</b>       |                |                       |             |
| Tensile Strength (2 in./min)         |                |                       | D638        |
| @ Yield                              | 4,350 psi      | 30.0 MPa              |             |
| @ Break                              | 2,630 psi      | 18.1 MPa              |             |
| Elongation (2 in./min)               |                |                       | D638        |
| @ Yield                              | 13 %           | 13 %                  |             |
| @ Break                              | 200 %          | 200 %                 |             |
| Flexural Modulus                     |                |                       | D790A       |
| 1% Secant                            | 165,000 psi    | 1,130 MPa             |             |
| Notched Izod Impact Strength         |                |                       | D256        |
| @ 23 C                               | 1.2 ft.-lbf/in | 6.2 kJ/m <sup>2</sup> |             |
| @ 4 C                                | 0.5 ft.-lbf/in | 3.6 kJ/m <sup>2</sup> |             |
| Hardness                             |                |                       | D785        |
| Rockwell R                           | 85             | 85                    |             |
| Vicat Softening Point                | 267 F          | 131 C                 | D1525       |
| Deflection Temperature               |                |                       | D648        |
| @ 66 psi (455 kPa)                   | 176 F          | 80 C                  |             |
| Haze, @ 23°C, 50-mil (1.3mm) plaque, |                |                       | D1003       |
| % Diffuse Transmittance              | —              | 12                    |             |
| Gloss Units, 60° angle               | —              | 95                    | D2457       |

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

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## Regulatory Information

The product and uses described herein may require global product registrations and notifications for chemical inventory listings, or for use in food contact or medical devices. For further information, please refer to the Regulatory Position Statement (RPS) online at [www.ineos-op.com](http://www.ineos-op.com), or call + 1-800-527-5419.

## Health and Safety Information

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at [www.ineos-op.com](http://www.ineos-op.com). Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.

The Material Safety Data Sheet for this product contains shipping descriptions and should be consulted, before transportation, as a reference in determining the proper shipping description. If the material shipped by INEOS O&P is altered or modified, different shipping descriptions may apply and the MSDS of the original material should not be used.

For additional information, samples, pricing and availability, please contact:

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