

# R55C-00 Clarified Polypropylene Copolymer

February 2011

Grade R55C-00 is a high melt flow rate clarified and antistatic random polypropylene copolymer. It is designed for high speed injection molding of thin walled parts requiring very good mold filling capabilities, excellent clarity, fast cycle times and good stiffness-to-impact properties balance. This material meets the requirements of the US Food and Drug Administration as specified in 21 CFR 177.1520. Preliminary properties listed below could later be subject to minor change.

## Applications

- Thin wall injection molding (TWIM) of multi-cavity parts
- Stadium cups and containers
- Audio/video media rigid packaging formats
- Consumer products and housewares

## Benefits

- High flow rate for easier mold filling
- High clarity in thin-walled parts
- Fast cycling
- Low bloom and good static charge dissipation
- Very good impact resistance

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

| Resin   | Values       | ASTM Method |
|---|--------------|-------------|
| Melt Flow Rate, 2.16 kg at 230°C, g/10 min                | 55           | D1238       |
| <b>Injection Molded Sample</b>                            |              |             |
| Tensile Strength at Yield, at 23°C, psi (MPa)             | 4250 (29.3)  | D638        |
| Flexural Modulus, at 23°C, kpsi (MPa)                     | 155.6 (1073) | D790A       |
| Heat Deflection Temperature at 66 psi, (455 kPa), °F (°C) | 184 (84.7)   | D648        |
| Izod Impact Strength, 1/8"                                |              |             |
| (3 mm) notched bar at 23°C, ft-lb/in (J/m)                | 0.91 (48.0)  | D256        |
| Haze, at 23°C, 50-mil (1.3mm) plaque,                     |              |             |
| % Diffuse Transmittance                                   | 17.3         | D1003       |
| Rockwell Hardness, R Scale                                | 84.4         | D785        |

<sup>1</sup> Typical properties will vary within specification limits.

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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.

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

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