

# R05C-00 Polypropylene Random Copolymer

Random copolymer R05C-00 is an antistatic, clarified polypropylene random copolymer produced by a unique catalyst technology. It is designed as a high gloss resin and exhibits good stiffness and improved cycle time. Product grade R05C-00 meets FDA requirements of 21CFR 177.1520.

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

| Resin                                      | Value           | Method |
|--|-----------------|--------|
| Density, g/cc                              | 0.898           | D1505  |
| Melt-Flow Index, 2.16kg at 230°C, g/10 min | 5.0             | D1238  |
| Tensile Strength                           |                 |        |
| at Yield, 2 in/min, psi (MPa)              | 4,250 (29)      | D638   |
| at Break, 2 in/min, psi (MPa)              | 2,700 (18.6)    | D638   |
| Elongation                                 |                 |        |
| at Yield, 2 in/min, %                      | 10              | D638   |
| at Break, 2 in/min, %                      | 550             | D638   |
| Flexural Modulus                           |                 |        |
| 1% Secant at 0.05 in/min, psi (MPa)        | 150,000 (1,030) | D790   |
| Notched-Izod Impact Strength               |                 |        |
| at 23°C, ft-lb <sub>f</sub> /in (J/m)      | 0.8 (43.0)      | D256   |
| Unnotched-Izod Impact Strength             |                 |        |
| at 23°C, ft-lb/in (J/m)                    | >25(>1,335)     |        |
| Hardness, Shore D                          | 66              | D2240  |

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