

# AMERICOLENE® PPH20A-IM

**AMERICOLENE**

## Polypropylene Homopolymer

AMERICOLENE® PPH20A-IM is a controlled rheology homopolymer designed for injection molding applications requiring a moderate level of antistatic agent. Typical applications include consumer products, housewares and rigid packaging. It meets the requirements of the U.S. Food and Drug Administration as specified in 21CFR 177.1520.

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

|                                     | Values English Units | Values SI Units       | ASTM Method |
|-------------------------------------|----------------------|-----------------------|-------------|
| <b>Resin</b>                        |                      |                       |             |
| <b>Density</b>                      | -                    | 0.910 g/cc            | D792        |
| <b>Melt Flow Rate 230°C/2.16 kg</b> | -                    | 20 g/10 min           | D1238       |
| <b>Injection Molded Samples</b>     |                      |                       |             |
| <b>Tensile Strength (2 in/min)</b>  |                      |                       | D638        |
| @ Yield                             | 5,280 psi            | 36.4 MPa              |             |
| @ Break                             | 2,920 psi            | 20.1 MPa              |             |
| <b>Elongation (2 in/min)</b>        |                      |                       | D638        |
| @ Yield                             | 9.7 %                | 9.7 %                 |             |
| @ Break                             | <100 %               | <100 %                |             |
| <b>Flexural Modulus</b>             |                      |                       | D790A       |
| 1% Secant                           | 232,100 psi          | 1,603 MPa             |             |
| <b>Notched Izod Impact Strength</b> |                      |                       | D256        |
| @ 23 C                              | 0.51 ft-lbf/in       | 2.7 kJ/m <sup>2</sup> |             |
| <b>Hardness</b>                     |                      |                       | D785        |
| Rockwell R                          | 104                  | 104                   |             |
| <b>Deflection Temperature</b>       |                      |                       | D648        |
| @ 66 psi (455 kPa)                  | 215 F                | 102 C                 |             |
| <b>Gloss at 60° angle</b>           | 94 %                 | 94 %                  | D2457       |

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