

## Technical Information



# MAGNUM™ 348

## Overview

MAGNUM™ 348 is a high flow and medium impact ABS Resin that is suited for injection molding applications.

Govt. and Industry Standards:

MAGNUM™ 348 complies with U.S. FDA 21 CFR 181.32(a)(3)(i).

Applications

- Consumer Goods

| Physical                                | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|-----------------------------------------|-------------------------|------------------------|-------------|
| Density                                 | 1.05 g/cm <sup>3</sup>  | 1.05 g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR)               |                         |                        | ISO 1133    |
| 220°C/10.0 kg                           | 22 g/10 min             | 22 g/10 min            |             |
| 230°C/3.8 kg                            | 5.5 g/10 min            | 5.5 g/10 min           |             |
| Mechanical                              | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Modulus <sup>1</sup>            | 290000 psi              | 2000 MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield)   | 5800 psi                | 40.0 MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break) | 22 %                    | 22 %                   | ASTM D638   |
| Flexural Modulus <sup>3</sup>           | 363000 psi              | 2500 MPa               | ASTM D790   |
| Impact                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                     |                         |                        | ASTM D256   |
| 0°F (-18°C)                             | 1.9 ft-lb/in            | 100 J/m                |             |
| 73°F (23°C)                             | 3.7 ft-lb/in            | 200 J/m                |             |
| Thermal                                 | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load       |                         |                        | ASTM D648   |
| 264 psi (1.8 MPa), Unannealed           | 171 °F                  | 77.0 °C                |             |
| Injection                               | Nominal Value (English) | Nominal Value (SI)     |             |
| Drying Temperature                      | 176 to 194 °F           | 80 to 90 °C            |             |
| Drying Time                             | 2.0 to 4.0 hr           | 2.0 to 4.0 hr          |             |

## Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

<sup>1</sup> 0.039 in/min (1.0 mm/min)

<sup>2</sup> 2.0 in/min (50 mm/min)

<sup>3</sup> 0.051 in/min (1.3 mm/min)

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# TRINSEO™

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