



# MAGNUM™ 1250 BG

Trinseo - ABS Resin

Sunday, November 3, 2019

## General Information

### Product Description

High Impact, High Heat, Blow Molding ABS

### General

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Material Status           | • Commercial: Active                               |
| Availability              | • North America                                    |
| Features                  | • High Heat Resistance • High Impact Resistance    |
| Automotive Specifications | • CHRYSLER MS-DB-300 CPN4262 • GM GMW15572P-ABS-T8 |
| Forms                     | • Pellets                                          |
| Processing Method         | • Blow Molding                                     |

## ASTM & ISO Properties <sup>1</sup>

| Physical                                                 | Nominal Value | Unit                  | Test Method |
|----------------------------------------------------------|---------------|-----------------------|-------------|
| Density                                                  | 1.05          | g/cm <sup>3</sup>     | ASTM D792   |
| Melt Mass-Flow Rate (230°C/3.8 kg)                       | 1.7           | g/10 min              | ASTM D1238  |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)                | 1.7           | g/10 min              | ISO 1133    |
| Mechanical                                               | Nominal Value | Unit                  | Test Method |
| Tensile Strength (Yield)                                 | 4870          | psi                   | ASTM D638   |
| Tensile Stress (Yield)                                   | 4890          | psi                   | ISO 527-2   |
| Tensile Elongation (Break)                               | 60            | %                     | ASTM D638   |
| Flexural Modulus                                         | 292000        | psi                   | ASTM D790   |
| Flexural Modulus                                         | 263000        | psi                   | ISO 178     |
| Impact                                                   | Nominal Value | Unit                  | Test Method |
| Notched Izod Impact                                      |               |                       | ASTM D256   |
| -20°F                                                    | 3.5           | ft-lb/in              |             |
| 73°F                                                     | 6.7           | ft-lb/in              |             |
| Notched Izod Impact Strength                             |               |                       | ISO 180     |
| -22°F                                                    | 8.1           | ft-lb/in <sup>2</sup> |             |
| 73°F                                                     | 12            | ft-lb/in <sup>2</sup> |             |
| Thermal                                                  | Nominal Value | Unit                  | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)   | 218           | °F                    | ASTM D648   |
| Heat Deflection Temperature (66 psi, Unannealed)         | 214           | °F                    | ISO 75-2/B  |
| Deflection Temperature Under Load<br>264 psi, Unannealed | 188           | °F                    | ASTM D648   |
| Heat Deflection Temperature (264 psi, Unannealed)        | 185           | °F                    | ISO 75-2/A  |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.