

# GLS ABS SG29

Acrylonitrile Butadiene Styrene

GLS Polymers Pvt. Ltd.

Message:

ABS 10 GF Precolor

| General Information                       |                                  |                   |             |
|-------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                    | Glass Fiber,10% Filler by Weight |                   |             |
| Appearance                                | Colors Available                 |                   |             |
| Physical                                  | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                          | 1.12 to 1.13                     | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | > 10                             | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)        | 0.30 to 0.50                     | %                 | ASTM D955   |
| Mechanical                                | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                           | > 4600                           | MPa               | ASTM D638   |
| Tensile Strength <sup>1</sup> (Yield)     | > 60.0                           | MPa               | ASTM D638   |
| Flexural Modulus                          | > 3700                           | MPa               | ASTM D790   |
| Flexural Strength                         | > 90.0                           | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)             | 60 to 75                         | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load         |                                  |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | > 100                            | °C                |             |
| 1.8 MPa, Unannealed                       | > 96.0                           | °C                |             |
| Flammability                              | Nominal Value                    |                   | Test Method |
| Flame Rating                              | HB                               |                   | UL 94       |
| Injection                                 | Nominal Value                    | Unit              |             |
| Drying Temperature                        | 80.0                             | °C                |             |
| Drying Time                               | 2.0                              | hr                |             |
| Processing (Melt) Temp                    | 205 to 235                       | °C                |             |
| Mold Temperature                          | 60.0 to 80.0                     | °C                |             |
| Injection Pressure                        | 68.0 to 102                      | MPa               |             |
| NOTE                                      |                                  |                   |             |
| 1.                                        | 50 mm/min                        |                   |             |

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