

# GLS ABS NN09

Acrylonitrile Butadiene Styrene

GLS Polymers Pvt. Ltd.

Message:

ABS HR1 (Heat Resistance) Precolor

| General Information                                     |                      |                   |             |
|---------------------------------------------------------|----------------------|-------------------|-------------|
| Features                                                | High Heat Resistance |                   |             |
| Appearance                                              | Colors Available     |                   |             |
| Physical                                                | Nominal Value        | Unit              | Test Method |
| Specific Gravity                                        | 1.04 to 1.05         | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)               | 6.0 to 10            | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)                      | 0.40 to 0.60         | %                 | ASTM D955   |
| Mechanical                                              | Nominal Value        | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield)                   | 45.0 to 52.0         | MPa               | ASTM D638   |
| Flexural Modulus <sup>2</sup>                           | 2300 to 2450         | MPa               | ASTM D790   |
| Flexural Strength <sup>3</sup>                          | 75.0 to 82.0         | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                           | 120 to 140           | J/m               | ASTM D256   |
| Thermal                                                 | Nominal Value        | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 106 to 108           | °C                | ASTM D648   |
| Vicat Softening Temperature                             | 125 to 127           | °C                | ASTM D1525  |
| Flammability                                            | Nominal Value        | Test Method       |             |
| Flame Rating (3.00 mm)                                  | HB                   | UL 94             |             |
| Injection                                               | Nominal Value        | Unit              |             |
| Drying Temperature                                      | 80.0                 | °C                |             |
| Drying Time                                             | 2.0                  | hr                |             |
| Processing (Melt) Temp                                  | 206 to 236           | °C                |             |
| Mold Temperature                                        | 65.0 to 86.0         | °C                |             |
| Injection Pressure                                      | 70.0 to 101          | MPa               |             |
| NOTE                                                    |                      |                   |             |
| 1.                                                      | 50 mm/min            |                   |             |
| 2.                                                      | 2.0 mm/min           |                   |             |
| 3.                                                      | 2.0 mm/min           |                   |             |

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