

## Technical Data Sheet

### *Polyman* ABS M/MI GLA RED51742

Acrylonitrile Butadiene Styrene

#### Product Description

ABS grade with increased impact strength, high gloss and antistatic agent

**Processing Method** Injection Molding

**Attribute** Good Impact Resistance; High Gloss

**Additive** Antistatic

| Typical Properties                                                   | Nominal Value | Units                   | Test Method          |
|----------------------------------------------------------------------|---------------|-------------------------|----------------------|
| <b>Physical</b>                                                      |               |                         |                      |
| Melt Volume Flow Rate, (220 °C/10.0 kg)                              | 30            | cm <sup>3</sup> /10 min | ISO 1133             |
| Density, (Method A)                                                  | 1.05          | g/cm <sup>3</sup>       | ISO 1183             |
| <b>Mechanical</b>                                                    |               |                         |                      |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                        | 43.0          | MPa                     | ISO 527-2            |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                        | 2.3           | %                       | ISO 527-2            |
| Tensile Modulus, (1 mm/min, Type 1A)                                 | 2300          | MPa                     | ISO 527-1            |
| <b>Impact</b>                                                        |               |                         |                      |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 15            | kJ/m <sup>2</sup>       | ISO 179              |
| Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)        | No Break      |                         | ISO 179              |
| Notched Izod Impact (Area), (23 °C)                                  | 13.0          | kJ/m <sup>2</sup>       | ASTM D256            |
| <b>Hardness</b>                                                      |               |                         |                      |
| Ball Indentation Hardness, (H 358/30)                                | 96.0          | MPa                     | ISO 2039-1           |
| <b>Thermal</b>                                                       |               |                         |                      |
| Vicat Softening Temperature, (B (50N), 50 °C/h)                      | 95.0          | °C                      | ISO 306              |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)  | 90.0          | °C                      | ISO 75-2/A           |
| <b>Electrical</b>                                                    |               |                         |                      |
| Volume Resistivity                                                   | >1.0E+13      | ohm*m                   | IEC 62631-3-1        |
| Surface Resistivity                                                  | >1.0E+15      | ohm                     | IEC 60093            |
| <b>UL Information</b>                                                |               |                         |                      |
| Flammability Classification, (1.5 mm)                                | HB            |                         | IEC 60695-11-10, -20 |