

## Technical Data Sheet

### *Polyman* ABS M/Hi A BLK70400



Acrylonitrile Butadiene Styrene

#### Product Description

increased impact modified ABS-standard with antistatic behaviour

|                          |                             |
|--------------------------|-----------------------------|
| <b>Processing Method</b> | Injection Molding           |
| <b>Attribute</b>         | Impact Modified             |
| <b>Additive</b>          | Antistatic; Impact Modifier |

| Typical Properties                                                  | Nominal Value | Units      | Test Method          |
|---------------------------------------------------------------------|---------------|------------|----------------------|
| <b>Physical</b>                                                     |               |            |                      |
| Melt Volume Flow Rate, (220 °C/10.0 kg)                             | 15            | cm³/10 min | ISO 1133             |
| Density, (Method A)                                                 | 1.05          | g/cm³      | ISO 1183             |
| <b>Mechanical</b>                                                   |               |            |                      |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                       | 48.0          | MPa        | ISO 527-2            |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                       | 2.1           | %          | ISO 527-2            |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 2200          | MPa        | ISO 527-1            |
| <b>Impact</b>                                                       |               |            |                      |
| Charpy Impact Strength - Notched                                    |               |            |                      |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 20            | kJ/m²      | ISO 179              |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 9.0           | kJ/m²      | ISO 179              |
| Charpy Impact Strength - Unnotched                                  |               |            |                      |
| (23 °C, Type 1, Edgewise)                                           | No Break      |            | ISO 179              |
| (-30 °C, Type 1, Edgewise)                                          | 71            | kJ/m²      | ISO 179              |
| Notched Izod Impact (Area), (23 °C)                                 | 25.0          | kJ/m²      | ASTM D256            |
| <b>Hardness</b>                                                     |               |            |                      |
| Ball Indentation Hardness, (H 358/30)                               | 110           | MPa        | ISO 2039-1           |
| <b>Thermal</b>                                                      |               |            |                      |
| Vicat Softening Temperature, (B (50N), 50 °C/h)                     | 94.0          | °C         | ISO 306              |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 95.0          | °C         | ISO 75-2/B           |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 91.0          | °C         | ISO 75-2/A           |
| <b>Electrical</b>                                                   |               |            |                      |
| Volume Resistivity                                                  | >1.0E+13      | ohm*m      | IEC 62631-3-1        |
| Comparative Tracking Index (CTI)                                    | 600           | V          | IEC 60112            |
| Surface Resistivity                                                 | >1.0E+15      | ohm        | IEC 60093            |
| <b>Flammable</b>                                                    |               |            |                      |
| Glow Wire Flammability Index, (2.0 mm)                              | 550           | °C         | IEC 60695-2-12       |
| <b>Additional Information</b>                                       |               |            |                      |
| Water Absorption 23C/50RH                                           | 1.2           | %          | ISO 62               |
| <b>UL Information</b>                                               |               |            |                      |
| Flammability Classification, (1.5 mm)                               | HB            |            | IEC 60695-11-10, -20 |