



## Hostalen GM 9350 C black

### Compounded Polyolefin

#### Product Description

**Hostalen GM 9350 C black** is a compounded high molecular weight high density polyethylene (HDPE). Typical customer applications include fuel tank filler pipes requiring electrical conductivity. It is supplied in pellets and is stabilized with antioxidants for the extrusion process. The product features a very good Environmental Stress Cracking Resistance (ESCR) and a good chemical resistance. Typical processes include blow molding and injection molding.

**Hostalen GM 9350 C black** is not intended for use in medical and pharmaceutical applications. The product can not be used for food contact applications.

#### Product Characteristics

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Status</b>                        | Commercial: Active                                                                                      |
| <b>Test Method used</b>              | ISO                                                                                                     |
| <b>Availability</b>                  | Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America                    |
| <b>Processing Methods</b>            | Extrusion Blow Molding, Injection Molding                                                               |
| <b>Features</b>                      | Good Chemical Resistance, Electrically Conductive, High ESCR (Environmental Stress Cracking Resistance) |
| <b>Typical Customer Applications</b> | Fuel Tanks                                                                                              |

| Typical Properties                                                  | Method   | Value | Unit              |
|---------------------------------------------------------------------|----------|-------|-------------------|
| <b>Physical</b>                                                     |          |       |                   |
| Density<br><i>Note: at 23°C</i>                                     | ISO 1183 | 0.995 | g/cm <sup>3</sup> |
| Bulk density                                                        | ISO 60   | 550   | g/cm <sup>3</sup> |
| Melt flow rate (190/21,6)                                           | ISO 1133 | 3     | g/10 min          |
| <b>Mechanical</b>                                                   |          |       |                   |
| Tensile Impact Strength<br><i>Note: -30 °C, notched, Method 1/B</i> | ISO 8256 | 45    | kJ/m <sup>2</sup> |
| Elongation at yield<br><i>Note: Method 2</i>                        | ISO 527  | 7     | %                 |
| Tensile stress at yield<br><i>Note: Method 2</i>                    | ISO 527  | 28    | MPa               |
| Tensile modulus                                                     | ISO 527  | 1200  | MPa               |
| <b>Electrical</b>                                                   |          |       |                   |
| Volume Resistivity                                                  | IEC 93   | 1E+05 | Ohm*cm            |
| Specific surface resistivity                                        | IEC 93   | 1E+04 | Ohm / sq.         |

#### Additional Properties

Processing:

Recommended melt temperatures for blow molding: 180-230 °C

Recommended melt temperature for injection molding: 240 - 270 °C

Processing conditions can affect the conductivity properties of the final part. It is thus recommended to process the material smoothly and at low shear rates. It is also highly