

## Technical Data Sheet

### Hostalen GM9350C BLACK

High Density Polyethylene



#### Product Description

Hostalen GM9350C BLACK is a compounded high molecular weight high density polyethylene. 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 GM9350C BLACK is not intended for use in medical and pharmaceutical applications. The product can not be used for food contact applications.

<b>Status</b>	Commercial: Active
<b>Availability</b>	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; North America; South & Central America
<b>Application</b>	Fuel Tanks
<b>Market</b>	Automotive
<b>Processing Method</b>	Extrusion Blow Molding; Injection Molding
<b>Attribute</b>	Electrically Conductive; Good Chemical Resistance; High ESCR (Environmental Stress Cracking Resistance)

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (190 °C/21.6 kg)	3.0	g/10 min	ISO 1133-1
Density	0.995	g/cm <sup>3</sup>	ISO 1183-1
Bulk Density	0.550	g/cm <sup>3</sup>	ISO 60
<b>Mechanical</b>			
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Stress at Yield	28	MPa	ISO 527-1, -2
Tensile Strain at Yield	7	%	ISO 527-1, -2
<b>Impact</b>			
Charpy Impact Strength - Notched, (-30 °C)	2.5	kJ/m <sup>2</sup>	ISO 179
<b>Electrical</b>			
Volume Resistivity	1E+05	ohm*cm	IEC 93
Specific Surface Resistivity	1E+04	ohm/sq	IEC 93
<b>Processing Parameters</b>			
Extrusion Temperature	180 - 230	°C	
For blow moulding process			
Injection Moulding Temperature	240 - 270	°C	
NOTE FOR BOTH BLOW MOULDING AND INJECTION MOULDING: 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 recommended to test and verify the conductivity on the final part prior to its usage.			

