

Hostalen GM 9310 C black

High Density Polyethylene
LyondellBasell Industries

Technical Data		
Product Description		
Hostalen GM 9310 C black is a electrically conductive high density polyethylene (HDPE), black coloured similar RAL 9004 with high melt viscosity for pipes and fittings for application in explosion-proof areas. The product provides good long term hydrostatic strength. It is not intended for medical, pharmaceutical and food contact applications.		
General		
Material Status	• Commercial: Active	
Literature ¹	• Processing - Mold Shrink (English) • Processing - PE Films (English) • Processing - Polyolefin Injection Molding Guide (English) • Technical Datasheet (English)	
Search for UL Yellow Card	• LyondellBasell Industries • Hostalen	
Availability	• Europe	
Additive	• Carbon Black (10%)	
Features	• Antistatic	• Electrically Conductive • High Viscosity
Uses	• Fittings • Industrial Applications	• Non-specific Food Applications • Piping
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Pipe Extrusion	• Sheet Extrusion
Physical		
Nominal Value Unit		Test Method
Density	1.00 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	4.5 g/10 min	ISO 1133
Carbon Black Content	10 %	ISO 6964
Mechanical		
Nominal Value Unit		Test Method
Tensile Modulus (23°C)	1150 MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	26.0 MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	7.0 %	ISO 527-2/50
Tensile Creep Modulus (1 hr)	780 MPa	ISO 899-1
Flexural Strength (3.5% Strain)	24.0 MPa	ISO 178
Flexural Creep Modulus ³	1.40 GPa	DIN 19537-2
Impact		
Nominal Value Unit		Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	3.0 kJ/m²	
23°C	5.0 kJ/m²	
Hardness		
Nominal Value Unit		Test Method
Shore Hardness (Shore D, 3 sec)	66	ISO 868
Ball Indentation Hardness (H 132/30)	55.0 MPa	ISO 2039-1
Thermal		
Nominal Value Unit		Test Method
Vicat Softening Temperature	83.0 °C	ISO 306/B50
Oxidation Induction Time (210°C)	20 min	ISO 11357-6
Electrical		
Nominal Value Unit		Test Method
Surface Resistivity	1.0E+4 ohm	IEC 60093
Volume Resistivity	1.0E+5 ohm·cm	IEC 60093
Additional Information		
Nominal Value Unit		Test Method
Staudinger Index	290 cm³/g	ISO 1628
Injection		
Nominal Value Unit		
Processing (Melt) Temp	200 to 280 °C	