Technical Data Sheet

Hostalen GM 9310 C BLACK

High Density Polyethylene

Product Description

Hostalen GM 9310 C black is a electrically conductive high density polyethylene (HDPE), black colored similar RAL 9004 with high melt viscosity for pipes, fittings and sheets for application in explosion-proof areas. The product provides good long term hydrostatic strength.

This grade is not intended for medical, pharmaceutical, food and drinking water applications.

Status	Commercial: Active
Application	Industrial
Market	Industrial, Building & Construction
Processing Method	Pipe; Sheet
Attribute	Electrically Conductive

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/5.0 kg)	0.14	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	4.5	g/10 min	ISO 1133-1
Density	1.000	g/cm³	ISO 1183-1
Mechanical			
Tensile Modulus, (23 °C)	1250	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	26	MPa	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	7	%	ISO 527-1, -2
FNCT, (4.0 MPa, 2% Arkopal N100, 80 °C)	100	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched			
(23 °C)	5	kJ/m²	ISO 179-1/1eA
(-30 °C)	3	kJ/m²	ISO 179-1/1eA
Hardness			
Shore Hardness, (Shore D, 3 sec)	66		ISO 868
Ball Indentation Hardness, (H 132/30)	55	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (B50)	83	°C	ISO 306
Oxidation Induction Time, (210 °C)	20	min	ISO 11357-6
DSC Melting Point	129	°C	DSC
Electrical			
Volume Resistivity	100000	ohm*cm	IEC 93
Surface Resistivity	10000	ohm	IEC 93
Electrical properties measured on compression molded sheet (120x80x3mm)			
Additive			
Carbon Black Content	10	%	ISO 6964