

Hostalen GM 9310 C black

High Density Polyethylene
LyondellBasell Industries

Message:

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 Information	
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/cm ³	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
Flexural Creep Modulus ¹	1.40	GPa	DIN 19537-2
Oxidation Induction Time (210°C)	20	min	ISO 11357-6
Staudinger Index	290	cm ³ /g	ISO 1628
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
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1250	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 Stress (3.5% Strain)	24.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	83.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4	ohms	IEC 60093
Volume Resistivity	1.0E+5	ohms·cm	IEC 60093
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 280	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	
NOTE			
1.	1 min		

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