

Hostalen CRP 100 RD black

High Density Polyethylene

LyondellBasell Industries

Message:

Hostalen CRP 100 RD black is a high density polyethylene. The new generation of PE100 material has been designed to meet new technical requirements for drinking water pipe systems. The material exhibits an improved resistance against disinfectants.

The material is black coloured similar RAL 9004 with high melt viscosity for extrusion, injection and compression moulding. The product is classified as PE 100 and provides excellent stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength.

It is not intended for medical and pharmaceutical applications.

General Information			
Additive	Carbon Black (2%)		
Features	High ESCR (Stress Crack Resist.)		
	High Viscosity		
Uses	Industrial Applications		
	Piping		
Agency Ratings	PPI PE-100		
Appearance	Black		
Processing Method	Compression Molding		
	Extrusion		
	Injection Molding		
	Pipe Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.959	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	6.4	g/10 min	
190°C/5.0 kg	0.23	g/10 min	
Carbon Black Content	2.3	%	ISO 6964
FNCT - 4 MPa (80°C) ¹	> 1.4	month	ISO 16770
Flexural Creep Modulus ²			DIN 19537-2
1 min	1.20	GPa	
2000 hr	0.330	GPa	
24 hr	0.560	GPa	
Oxidation Induction Time (210°C)	30	min	ISO 11357-6
MRS Classification	10.0	MPa	ISO 9080
Odor Threshold	< 2.00		EN 1622/EN 1420
Hardness	Nominal Value	Unit	Test Method

Shore Hardness (Shore D, 3 sec)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1100	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	23.0	MPa	ISO 527-2/50
Tensile Strain			
Yield, 23°C	8.0	%	ISO 527-2/50
Break	> 350	%	EN 638
Tensile Creep Modulus ³			ISO 899-1
1 hr	850	MPa	
1000 hr	360	MPa	
Flexural Stress (3.5% Strain)	21.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	13	kJ/m ²	
23°C	26	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	74.0	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 to 280	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	
NOTE			
1.	2% Arkopal N 100		
2.	4 point loading method		
3.	2.0 MPa load		

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