

Hostalen CRP 100 black (XL)

High Density Polyethylene

LyondellBasell Industries

Message:

Hostalen CRP 100 black (XL) is a high density polyethylene (HDPE), black coloured similar RAL 9004 with high melt viscosity and higher zero viscosity.

Typical application: Extrusion of extra large and thick walled pipes to avoid the sagging.

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		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
	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/2.16 kg	0.23	g/10 min	
190°C/21.6 kg	6.4	g/10 min	
Carbon Black Content	2.3	%	ISO 6964
FNCT (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 TR 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
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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
Tensile Creep Modulus ³			ISO 899-1
1 hr	850	MPa	
1000 hr	360	MPa	
Films	Nominal Value	Unit	Test Method
Tensile Elongation (Break)	> 350	%	EN 638
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	190 to 220	°C	
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	
NOTE			
1.	4.0 MPa, 2% Arkopal N 100		
2.	4 point loading method		
3.	2.0 MPa load		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

