

Hostalen CRP 100 RESIST CR black

High Density Polyethylene

LyondellBasell Industries

Message:

Hostalen CRP 100 RESIST CR black is a high density polyethylene (HDPE), black coloured similar RAL 9004 with high melt viscosity for extrusion, injection and compression moulding. The product is classified as PE 100-RC and provides a very good long term hydrostatic strength. Especially developed for non-conventional pipe installations methods the product has a superior resistance to slow crack growth. It fulfills the material requirements of PAS 1075:2009-04

It is not intended for medical and pharmaceutical applications.

General Information	
Additive	Carbon Black (2%)
Features	Good Crack Resistance
	Good Strength
	High Viscosity
Uses	Industrial Applications
	Piping
Agency Ratings	PPI PE-100
Appearance	Black
Forms	Pellets
Processing Method	Compression Molding
	Extrusion
	Injection Molding
	Pipe Extrusion
	Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.958	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	
FNCT (80°C) ¹	> 1	yr	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
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	9.0	%	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.	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

