

Hostalen CRP 100 black

High Density Polyethylene
LyondellBasell Industries

Message:

Hostalen CRP 100 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 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	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Heat Aging Resistance		
	Good Organoleptic Properties		
	Good UV Resistance		
	Good Wear Resistance		
	Good Weather Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Viscosity		
Weldable			
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	0.959	g/cm³	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	> 1.4	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	
Maximum Elongation - TD	> 350	%	EN 638
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)	8.0	%	ISO 527-2/50
Tensile Creep Modulus ³			ISO 899-1
1 hr	850	MPa	
1000 hr	360	MPa	
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	
Rear Temperature	200 to 280	°C	
Middle Temperature	200 to 280	°C	
Front Temperature	200 to 280	°C	
Processing (Melt) Temp	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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