

Hostalen CRP 100 blue

High Density Polyethylene

LyondellBasell Industries

Message:

Hostalen CRP 100 blue is a high density polyethylene (HDPE), blue coloured similar RAL 5005 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			
Features	High ESCR (Stress Crack Resist.)		
	High Viscosity		
Uses	Piping		
Appearance	Blue		
Forms	Pellets		
Processing Method	Compression Molding		
	Extrusion		
	Injection Molding		
	Pipe Extrusion		
	Sheet Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.950	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	> 1.4	month	ISO 16770
Flexural Creep Modulus ²			DIN 19537-2
1 min	1.10	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

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	62		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	850	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	800	MPa	
1000 hr	350	MPa	
Flexural Stress (3.5% Strain)	20.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	15	kJ/m ²	
23°C	29	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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