

Hostalen CRP 100 RESIST CR orange

High Density Polyethylene

LyondellBasell Industries

Message:

Hostalen CRP 100 RESIST CR orange is a high density polyethylene (HDPE), orange coloured similar RAL 1033 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 fulfils the material requirements of PAS 1075:2009-04.

It is not allowed for any medical, pharmaceutical or food contact application.

General Information			
Features	High Viscosity		
Uses	Industrial Applications		
	Piping		
	Sheet		
Appearance	Orange		
Processing Method	Compression Molding		
	Extrusion		
	Injection Molding		
	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	7.3	g/10 min	
190°C/5.0 kg	0.27	g/10 min	
FNCT (80°C) ¹	> 1	yr	ISO 16770
Flexural Creep Modulus			DIN 19537-2
-- ²	330	MPa	
-- ³	560	MPa	
-- ⁴	1100	MPa	
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)	1050	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
Tensile Creep Modulus ⁵			ISO 899-1

1 hr	850	MPa	
1000 hr	360	MPa	
Films	Nominal Value	Unit	Test Method
Tensile Elongation - TD (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	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, 2000 hr		
3.	4 point loading method, 24 hr		
4.	4 point loading method, 1 min		
5.	2.0 MPa		

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