Hostalen CRP 100 RESIST CR W blue

High Density Polyethylene

LyondellBasell Industries

Message:

Hostalen CRP 100 RESIST CR W blue is a high density polyethylene (HDPE), dark blue coloured similar RAL 5005 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 intended for medical and pharmaceutical applications.

General Information	
Features	Good Strength High Viscosity
Uses	Industrial Applications Piping
Appearance	Blue
Processing Method	Compression Molding Extrusion Injection Molding Pipe Extrusion Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm³	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 - 4.0 MPa (80°C) [1]	> 1	yr	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
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)	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
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.	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