Hostalen CRP 100 W blue

High Density Polyethylene

LyondellBasell Industries

Message:

Hostalen CRP 100 W blue is a high density polyethylene (HDPE), dark blue coloured similar RAL 5005 with high melt viscosity for extrusion and injection moulding. The product is classified as PE 100 and provides excellent stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength.

General Information	
Features	High ESCR (Stress Crack Resist.) High Viscosity
Uses	Piping Sheet
Appearance	Blue
Forms	Pellets
Processing Method	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 (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
Odor Threshold	< 2.00		EN 1622/EN 1420

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)	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)	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		

Recommended distributors for this material

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