

Hostalen CRP 100 RT black

High Density Polyethylene

LyondellBasell Industries

Message:

Hostalen CRP 100 RT 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 used by customers in pipe and sheet applications and provides excellent stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength even at raised temperature (RT).

It has an excellent heat ageing and extremely high extraction stability.

It is not intended for medical and pharmaceutical applications.

General Information			
Features	Extraction Resistant		
	Good Heat Aging Resistance		
	High ESCR (Stress Crack Resist.)		
	High Viscosity		
Uses	Piping		
	Sheet		
Appearance	Black		
Forms	Pellets		
Processing Method	Compression Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.957	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	9.5	g/10 min	
190°C/5.0 kg	0.45	g/10 min	
Carbon Black Content	2.3	%	ISO 6964
Full Notch Creep Test (80°C) ¹	14.6	day	
Flexural Creep Modulus ²			DIN 19537-2
1 min	1.00	GPa	
2000 hr	0.300	GPa	
24 hr	0.470	GPa	
Maximum Elongation - TD	> 350	%	EN 638
Oxidation Induction Time (210°C)	40	min	ISO 11357-6
Odor Threshold	< 2.00		EN 1622/EN 1420
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 3 sec)	59		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1050	MPa	ISO 527-2/50
Tensile Stress (Yield, 23°C)	22.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 23°C	8.0	%	
Break, 23°C, 4.00 mm	600	%	
Tensile Creep Modulus ³			ISO 899-1
1 hr	640	MPa	
1000 hr	300	MPa	
Flexural Stress (3.5% Strain)	18.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	8.0	kJ/m ²	
23°C	24	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	70.0	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Processing (Melt) Temp	190 to 230	°C	
Mold Temperature	200 to 280	°C	
NOTE			
1.	4.0 MPa, 2% Arkopal N 100		
2.	4 point loading method		
3.	2.0 MPa load		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT