Hostalen CRP 100 orange

High Density Polyethylene

LyondellBasell Industries

Technical Data

Product Description

Hostalen CRP 100 orange is a high density polyethylene (HDPE), orange coloured similar RAL 1033 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.

It is not intended for medical and pharmaceutical applications.

General

Material Status	• Commercial: Active		
Literature [1]	• Processing - Mold Shrink (English) • Processing - PE Films (English) • Processing - Polyolefin Injection Molding Guide (English) • Technical Datasheet (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Hostalen		
Availability	• Asia Pacific	• Europe	• Latin America
Features	• High ESCR (Stress Crack Resist.)	• High Viscosity	
Uses	• Piping		
Appearance	• Orange		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm³	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 [3] (80°C)	> 1.4	month	ISO 16770
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	850	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	23.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	9.0	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	15	kJ/m²	
23°C	29	kJ/m²	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, 3 sec)	62		ISO 868
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	74.0	°C	ISO 306/B50
Oxidation Induction Time (210°C)	> 30	min	ISO 11357-6
Additional Information	**Nominal Value**	**Unit**	**Test Method**
MRS Classification	10.0	MPa	ISO 9080

Injection	Nominal Value	Unit
Processing (Melt) Temp	190 to 220	°C

Injection Notes

Recommended injection moulding temperatures: 200-280 °C.

Extrusion	Nominal Value	Unit
Melt Temperature	190 to 220	°C