

Technical Data Sheet

Hostalen CRP 100 RESIST CR W BLUE



High Density Polyethylene

Product Description

Hostalen CRP 100 RESIST CR W blue is a high density polyethylene (HDPE), dark blue colored similar RAL 5005 with high melt viscosity for extrusion, injection and compression molding. The compound fulfills the material requirements of EN 12201-1 and ISO 4427-1. The product is classified as PE 100-RC and provides a very good long term hydrostatic strength. Especially developed for non-conventional pipe installation methods the product has a superior resistance to slow crack growth. It fulfills the material requirements of PAS 1075:2009-04. Designation acc. ISO 1872-1: PE, EACHL, 50 - T003

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe; South & Central America
Application	Drinking Water Pipe; Industrial
Market	Industrial, Building & Construction; Pipe
Processing Method	Pipe; Sheet
Attribute	Good Creep Resistance; Good ESCR (Environmental Stress Cracking Resistance); Good Organoleptic Properties; Weldable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/5.0 kg)	0.27	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	7.3	g/10 min	ISO 1133-1
Density	0.950	g/cm ³	ISO 1183-1
Mechanical			
Flexural Creep Modulus			
(4-point loading / 1 min)	1100	MPa	DIN 16841
(4-point loading / 24 hr)	560	MPa	DIN 16841
(4-point loading / 2000 hr)	330	MPa	DIN 16841
Tensile Modulus, (23 °C)	1050	MPa	ISO 527-1, -2
Tensile Creep Modulus			
(1 hr / 2 MPa)	850	MPa	ISO 899-1
(1000 hr / 2 MPa)	360	MPa	ISO 899-1
Tensile Stress at Yield, (23 °C, 50 mm/min)	23	MPa	ISO 527-1, -2
Tensile Strain at Break, (23 °C)	650	%	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	9	%	ISO 527-1, -2
MRS Classification	10	MPa	ISO 9080



FNCT, (4.0 MPa, 2% Arkopal N100, 80 °C)	>=8760	hr	ISO 16770
Impact			
Charpy Impact Strength - Notched			
(23 °C)	26	kJ/m ²	ISO 179-1/1eA
(-30 °C)	13	kJ/m ²	ISO 179-1/1eA
Hardness			
Shore Hardness, (Shore D, 3 sec)	63		ISO 868
Thermal			
Vicat Softening Temperature, (B50)	74	°C	ISO 306
Oxidation Induction Time, (210 °C)	30	min	ISO 11357-6
DSC Melting Point	129	°C	DSC
Additional Information			
Odor Threshold	<=2		EN 1622/EN 1420
measured on pellets / 30°C / 4 h extraction time			

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

Recommended melt temperatures: 190 °C to 230 °C.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

