TotalEnergies

Refining & Chemicals
Polymers

Technical data sheet
High Density Polyethylene
Produced in Europe

Description

HDPE XRC20N RT is a high performance hexene-based compound primarily intended to protect high-voltage cable.

HDPE XRC20N RT key characteristics are :

- a PE-RT Type II classification (ISO 22391-2)
- a superior resistance to slow crack growth coupled with a MRS of 10 MPa, ensuring safe and durable pipe systems operation (ISO 9080)
- a broad bimodal molecular weight distribution offering outstanding processing properties from small bore pipes to larger diameter pipes extrusion, for both mono- and multilayer applications
- an optimised formulation of additives providing excellent long-term stability in service at elevated temperatures.

Characteristics

Property	Method	Unit	Typical value (*)
Density	ISO 1183	kg/m³	947
Melt Flow Rate (190°C/5 kg)	ISO 1133/T	g/10 min	0.2
Oxidation Induction Time (210 °C)	ISO 11357-6	min	≥ 40
Strain – Hardening test (SHT)	ISO 18488	MPa	≥ 53,0
Cracked Round Bar test (CRB)	ISO 18489	-	≥ 1,5 × 106 cycles
Water content (*)	EN 12118	ppm	≤ 300

(*) Measured at the stage of compound manufacturing

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: www.polymers.totalenergies.com.

Polyethylene