

Technical Data Sheet

HMCRP100Natural (EX3100S)

High Density Polyethylene for Pipes

General Description

HMCRP100Natural (EX3100S) is a high density polyethylene with 1-butene as comonomer. It is natural, with outstanding ESCR, high impact strength and outstanding hydrostatic strength for PE 100 class.

Typical Applications

- Pipe extrusion PE 100 class
- Industrial & pressure pipe
- Gas & drinking water pipe
- Fittings

Catalyst: THS/BM

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Density	0.948±0.002	g/cm³	ISO 1183
FRR 21.6/5	28±3		
Hydrostatic strength (80 °C)	5000 (4.5	h	ISO 1167
	N/mm ²)		
MFR190°/2.16	6.2±1	g/10 min	ISO 1133
MFR190°/5	0.22±0.02	g/10 min	ISO 1133
Notched impact (23 °C)	≥26	MJ/mm ²	ISO 179/1eA

^{*} Typical values; not to be considered as product specification.

Note:

Test specimens were taken from compression moulded sheet at 23°C.

FRR values are statistical and calculated by dividing MFR values.

Notch impact test specimen was taken from compressed moulded sheet at 23°C and the data quoted here are average values.

Processing conditions: Recommended melt temperature is 190 - 220 °C.

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NOTICE: All tests were performed under laboratory conditions and standard testing methods. The data are intended as a general guide only and do not necessarily represent results that might be obtained elsewhere. The use of this product must be guided by the user's own methods for selection of proper formulation. RAYOMAND disclaims any responsibility for misuse or misapplication of this product. RAYOMAND makes no warranty of merchantability and there is no warranty that goods supplied shall be fit for any particular purpose. RAYOMAND liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited. The customer is responsible for determining whether products and information in this document are appropriate for the customer's use.