

## Product data sheet



HDPE made via Hostalen Process



### HMCRP 100N (PE100)

-M-CRP100N (PE100) is a natural pipe grade resin which is manufactured by suspension polymerization of ethylen monomer, HM-CRP100N (PE100) is a bi-model high density polyethylene with 1-Butene as co monomer.

HDPE: HMCRP 100 N (PE100)

Density: 0.946-0.950 g/cm<sup>3</sup>

MFR 190/5: 0.19-0.25

#### Characteristic Properties



- Natural PE100 pipe resin.

#### Main Applications



- Top quality PE100 pressure
- Pipes for gas and water transportation at higher pressures or with thinner walls as PE80 (UV stabilization and/ or pigments during processing)

#### Additives



- Antioxidant / Process stabilizer
- Lubricant (processing aid)/ acid scavenger

**Material properties** (This data are typical values and are not to be construed as product specifications.)

Test/Composition	Typical Value	Unit	ASTM Method
Density	0.948	g/m <sup>3</sup>	ISO1183
FRR 21.6/5	28		
Hydrostatic Strength (80°C)	5000 (4.5N/mm <sup>2</sup> )	h	ISO1167
MFR190°/21.6	6.2	(g/10 min)	ISO1133
MFR190°/5	0.22	(g/10 min)	ISO1133
Notched Impact (23°C)	24	kJ/mm <sup>2</sup>	ISO179/1eA

- Test specimen from compression moulded sheet at 23°C.
- FRR values are statistical and calculated by dividing MFR values.
- Notch Impact Test specimen from compressed moulded sheet 23°C and The data quoted are average values .

## Handling and Health Safety

Molten polymers could be injured skin or eye so safety glasses and appropriate gloves are suggested to prevent possible thermal injuries. Also appropriate ventilation is suggested in working by melt polymer.

Accumulation of fines or dust particles that are in this grade is not suitable because of explosion hazard probability. So adequated filters and grounding exists at all time are recommended.

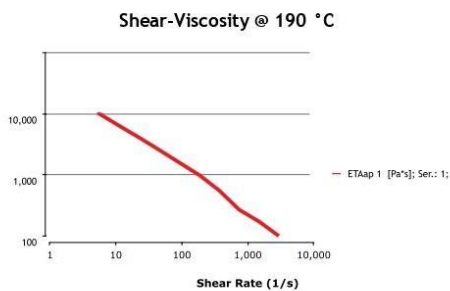
## Storage

Polyethylene products (in pelletised or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet cause a change in the material properties. The Storage area should be dry and preferably don't exceed 50 °C. Under cool, dry, dark conditions Jam Polymers polyolefin resins are expected to maintain the original material and processing properties for at least 18 month. JPC would not responsible about quality diminishing such as color change, bad smell or ets which caused by bad storage conditions. It is better to process PE resin within 6 months after delivery.

## packaging

Jam Polymers Polyolefin resins are supplied in Pellet form packed in 25kg bags. Alternative packaging modes are available for selected grades.

- On compression moulded according to ASTM D1928C  
Processing Conditions  
Recommended barrel tempratures range between 190 °C and 280 °C.



The above values were  
Calculated from data for 100 µm  
produced  
on a 75mm Barrnoge  
extruder with 190°C melt tem-  
perature using a 2:1 blow ratio  
and a gap die of 3.0 mm.