JAM Petrochemical Company

JPC

HDPE made via Hostalen Process

Product data sheet
HM-5010T2N (EX_3)

HM-5010T2N (PE80) is manufactured by the suspension polymerization of ethylene monomer. The polymerization is generally carried out in a batch process. HM-5010T2N grade is a pressure pipes grade for gas and water transportation. UV stabilization and pigments can be used during process.

HDPE: HM-5010T2N (EX_3) | **Density: 0.945** | **MFI: 12**

Features

- *Tough and rigid pipe resin*

Applications

- *This grade apply for Gas and water transportation. By use of stabilizers and pigments this grade is applied for piping under uv radiation in gas and liquid transportation.*

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.)*

Resin Properties	Unit	Typical Value	Test Method
Melt Index (2.16)	g/10 min	12	ISO 1133
Melt Index (5)	g/10 min	0.45	ISO 1133
FRR (21.6/5)		27	
Density	g/cm^3	0.945	ISO 1183
Molded Properties	**Unit**	**Typical Value**	**Test Method**
Notched Impact @ 23 °C	mJ/mm^2	12	ISO 179/ 1 eA
Mechanical Properties	**Unit**	**Typical Value**	**Test Method**
Hydrostatic Strength (80 °C)	h	(4.0 N/mm^2) 1000	ISO 1167

Handellling and Health Safety

sMolten 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

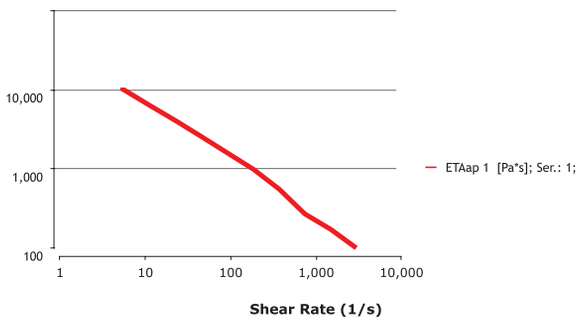
Polyethylene products (in pelletised or powder form) should not be stored in direct sunshine and/or heat radiation. Ultraviolet cause a change in the material properties.The Storage area should be dry and preferably don't exceed 50 °C. Under cool, dry, dark conditions Jam Polymers polyolefin resins are expected to maintain the original material and processing properties for at least 18 month. . JPC would not ressponsible 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 pllet form packed in 25kg bags. Alternative packaging modes are available for selected grades.

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

Shear-Viscosity @ 190 °C



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