



HD-EX3

License Grade Code HM 5010 T2N

High Density Polyethylene (HDPE)

Product Description

“EX3 (HM 5010 T2N)” is a natural coloured high density polyethylene with Butene-1 as comonomer. The product is classified as PE 80 and good stress crack resistance properties (ESCR) combined with good impact strength.

Stabilization: Ca-Stearate, Zn-Stearate, Irganox1010, Irgafos168.

Applications

- Pipe Extrusion PE80 Class
- Pressure pipe
- Drinking water and gas pipes
- Sewer pipes and their fittings
- Discharge pipes
- For injection moulded and other fittings Sheets

PROPERTY	UNIT	TYPICAL VALUE	TEST METHOD
MELT FLOW RATE(MFR)	g/10min		ISO 1133
DENSITY	g/cm ³	0.945	ISO 1183
MRS CLASSIFICATION	MPa	8	ISO/TR9080
HYDROSTATIC STRENGTH(80 °C)	hr	1000	ISO 1167 / DIN8075
TENSILE MODULUS (23 °C, V=1MM/MIN),SECANT	MPa	850	ISO 527-1,2
TENSILE STRESS @ YIELD (23 °C, V=50MM/MIN)	MPa	22	ISO 527-1,2
TENSILE STRAIN@ YIELD (23 °C, V=50MM/MIN)	%	8	ISO 527-1,2
TENSILE CREEP MODULUS 1H	MPa		ISO 899-1
TENSILE STRESS AT 3.5 % DEFLECTION	MPa		ISO 178
CHARPY NOTCH IMPACT STRENGTH(23 °C)	Ki/m ²	12	ISO 179
HARDNESS SHORE D (3 SEC)	---	60	ISO 868
VICAT SOFTENING TEMPERATURE	°C	67	ISO 306
OXIDATION INDUCTION TIME (210°C)	Min		EN 728
MELTING POINT	°C	136	ISO 3146

Processing Condition

Recommended melt temperature: 190-220 °C

Extruder for Producing Pipe: Dr.Collin E 45 M.

Screw Temperature (°C): 180,200,200

Hard Temperature (°C): 200,200 Orifice

Temperature (°C): 200,210

Screw speed is set to 60 to 80 rpm.

The Feeder of the extruder is cooled by cooling water CWS/CWR (35-45)

Pipe Measuring: 32mm × 3mm

Producer: Amir Kabir Petrochemical Co.

Licensor: Basell

Packing: 25 Kg plastic bag

IMPORTANT: The information and data presented herein are based on values from respective product manufacture. Therefore, no warranty or guarantee, expressed or implied, is made nor is any accountability accepted with respect to the use of such information and data. All mentioned data are typical values and not to be considered as legally binding specification.