

HD-EX3 80

License Grade Code HM 5010 T2N



High Density Polyethylene (HDPE)

Product Description

EX3-80" is a high density polyethylene with 1-Butene as co monomer .It is natural, good ESCR, good impact strength, tough and rigid pipe resin.

Applications

- Pipe extrusion PE 80 class
- Industrial and pressure pipe, gas pipe, drinking water pipe
- Pressure less pipe, relining, fittings

| PROPERTY | UNIT | TYPICAL VALUE | TEST METHOD |
|---|-----------|---------------|---------------|
| MASS DENSITY (230C) | g/cm3 | 0.945 | ISO 1183 |
| MELT FLOW RATE (1900C/5.0KG) | g/10min | 0.45 | ISO 1133 |
| MELT FLOW RATE (1900C/21.6 KG) | g/10min | 12 | ISO 1133 |
| STRESS AT YIELD | MPa | 22 | ISO 527 |
| FLEXURAL CREEP MODULUS (4POINT, 1MIN) | MPa | 950 | DIN 19537-2 |
| TENSILE MODULUS (230C, V = 1MM / MIN ,SECANT) | MPa | 850 | ISO 527 |
| STRESS AT BREAK | MPa | 35 | ISO 527 |
| ELONGATION AT BREAK | % | >850 | ISO 527 |
| ELONGATION AT YIELD | % | 8 | ISO 527 |
| SOFTENING TEMPERATURE | OC | 67 | ISO 306 |
| BRITTLE TEMPERATURE | OC | < - 80 | ASTM D746-72 |
| SHORE D HARDNESS | - | 60 | ISO 868 |
| ESCR IN FULL NOTCH CREEP TEST (800C, 2% ARCOPAL) | h@4.0 MPa | 50 | ISO CD 16770 |
| IMPACT STRENGTH (230C) | Kj/m2 | 23 | ISO 179/1eA |
| EXPECTED PROPERTIES ON APPLICATION | | | |
| S4 TEST (RCP) | Bar | Pc > 3 | ISO DIS 13477 |
| NOTCH TEST (SCG) | h@4.0 MPa | >250 | ISO DIS 13479 |
| HYDROSTATIC STRENGTH TEST (800C) | h@4.6 MPa | >1000 | ISO 1167 |

Processing condition

Recommended melt temperature: 190 - 220° C

Producer: Marun Petrochemical Co.

Licenser: 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.