



HD-EX 3-80S

License Grade Code HM 5010 T3 N

Product Description:

"EX3-80S" is a high density polyethylene with 1-Butene as co monomer. It is natural, excellent ESCR, high impact strength, outstanding hydrostatic strength for PE 80 class.

Applications:

- Pipe extrusion PE 80 class
- Industrial and pressure pipe, Gas pipe, drinking water pipe
- relining, fittings

Typical data

| PROPERTY | TEST METHOD | UNIT | TYPICAL VALUE* |
|--------------------------------|-------------|-------------------|----------------|
| Mass density (23 C) | ISO 1183 | g/cm ³ | 0.944 |
| Melt Flow Rate (190 C/5.0kg) | ISO 1133 | g/10min | 0.43 |
| Melt Flow Rate (190 C/21.16kg) | ISO 1133 | g/10min | 10.3 |
| FRR(21.6/5) | | - | 24 |



| PROPERTY | TEST METHOD | UNIT | TYPICAL VALUE* |
|---|---------------|-----------|----------------|
| Stress at Yield | ISO 527 | Mpa | 22 |
| Flextural Creep Modulus (4point, 1min) | DIN 19537-2 | Mpa | 900 |
| Tensile Modulus (23 C, v=1mm/min, secant) | ISO 527 | Mpa | 850 |
| Stress at Break | ISO 527 | Mpa | 35 |
| Elongation at Break | ISO 527 | % | >1000 |
| Elongation at Yield | ISO 527 | % | 10 |
| Softening Temperature | ISO 306 | C | 67 |
| Brittle Temperature | ASTM D746-72 | C | <-80 |
| shore D hardness | ISO 868 | | 59 |
| ESCR in full notch creep test (80 C, 2% Arcopal) | ISO CD 16770 | h@4.0 Mpa | 200 |
| Impact strength (23 C) | ISO 179/1eA | Kj/m2 | 23 |
| S4 Test (RCP) | ISO DIS 13477 | bar | PC >3 |
| Notch Test (SCG) | ISO DIS 13479 | Mpa h@4.0 | >2500 |
| Hydrostatic strength test (80 C) | ISO 1167 | Mpa h@4.6 | >5000 |
| VN | - | Cm3/g | >300 |
| FNCT (950C, 4.0MPa) | - | h | >100 |

- Typical Values: not to be construed as specifications
- Recommended melt temp: 190-220 c