

ILPC HDPE 7700M

HIGH DENSITY POLYETHYLENE

DESCRIPTION

HDPE 7700M is a natural, bimodal technology, high density polyethylene classified as a MRS 10.0 material (PE100) providing superior in mechanical properties and processability. HDPE 7700M also shows excellent resistance to rapid crack propagation and slow crack growth. HDPE7700M is produced under license from Mitsui.

TYPICAL APPLICATIONS

Potable PRODUCT DESCRIPTION

- water pipes
- Drainage, Sewerage, Industrial pipes
- Corrugated pipes

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|--------------------------------------|----------------|-------------------|--------------|
| POLYMER PROPERTIES ⁽¹⁾ | | | |
| Melt Flow Rate (MFR) | | | |
| at 190°C and 5 kg load | 0.28 | g/10 min | ISO 1133 |
| at 190°C and 21.6 kg load | 9.5 | g/10 min | ISO 1133 |
| Density at 23°C ⁽¹⁾ | 950 | kg/m ³ | ISO 1183 |
| MECHANICAL PROPERTIES ⁽²⁾ | | | |
| Tensile Stress at Yield | 24 | MPa | ISO 527-1/-2 |
| Tensile Stress at Break | >29 | MPa | ISO 527-1/-2 |
| Elongation at Break | >500 | % | ISO 527-1/-2 |
| Izod Notched (23°C) Impact strength | 35 | Kg.cm/cm | ASTM D 256 |
| Charpy Impact strength | NB | kJ/m ² | ISO 179-1 |
| Shore hardness | 63 | D scale | ISO 868 |
| Stress cracking resistance (80°C) | >1000 | hr | ASTM 1693 |
| Vicat softening temperature | 122 | °C | ISO 306 |
| OIT@210°C | >20 | Min | ASTM D 3418 |

(1) Typical values: not to be construed as specification limits.

(2) Based on compression molded sheet. Compression molding of test specimen according to ISO 1872-2 Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours

PROCESSING CONDITIONS

Typical processing conditions for HDPE 7700M:

Met Temperture:190-220

STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat.The storage area should also be dry and preferably don't exceed 50°C. ILPC would not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance.

Packaging

25 kg bag ,1375 Kg shrink film palletized.

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