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|----------------|-------|
| Grade | M7100 |
| Product | HDPE |

General Information

Key Features

- For Pipe Extrusion Molding
- ISO PE100 (MRS 10) Class
- Good Processability, Good Mechanical Properties

Applications

Water supply pipe, Sewerage pipe, Gas pipe, etc.

| Item | Measuring Method | Unit | Value |
|--------------------------------------|------------------|---------------------|-----------|
| Physical | | | |
| Melt Flow Index (190°C, 2.16kg/5kg) | ASTM D1238 | g/10min | 0.06/0.25 |
| Density | ASTM D1505 | g/cm ³ | 0.952 |
| Mechanical | | | |
| Tensile Stress (Yield) | ASTM D638 | kgf/cm ² | 230 |
| Tensile Strain (Break) | ASTM D638 | % | ≥700 |
| Flexural Modulus | ASTM D790 | kgf/cm ² | 8,500 |
| Impact | | | |
| Izod Impact Strength(notched) (23°C) | ASTM D256 | kgf·cm/cm | NB |
| Thermal | | | |
| VICAT Softening Temperature | ASTM D1525 | °C | 125 |
| Oxidative Induction Time (200°C) | ISO/TR 10837 | min | >30 |
| Additional Properties | | | |
| Rockwell Hardness | ASTM D785 | R | 57 |
| ESCR | ASTM D1693 | F50hr | >1,000 |
| Hydrostatic Pressure Test | ISO 1167 | | |
| 12.4MPa (20°C) | (>100) | hr | >100 |
| 5.4MPa (80°C) | (>165) | hr | >165 |
| 5.0MPa (80°C) | (>1,000) | hr | >1,000 |

1. Physical Properties : these are not to be construed as specifications

2. ISO 9001, 14001, /TS 16949

* The last update date : 2021/10/01