

NEFTEKHIM PP 1415L (YC37F)

Polypropylene Homopolymer

Nizhnekamskneftekhim Inc.

Message:

Product obtained by polymerization of propylene in presence of complex organic metal catalysts.
It incorporates increased long-term thermal stability, thermaloxidative degradation resistance when PP is produced, processed and PP-made articles are exploited, improved properties contributing to slipping and preventing from film layers sticking, improved rheology of melt.
Application: extrusion flat-slot and tubular film.
Technical requirements: TU 2211-136-05766801-2006

| General Information | | | |
|---|------------------------|--------------------|-------------|
| Features | Controlled Rheology | | |
| | Good Thermal Stability | | |
| | Homopolymer | | |
| | Oxidation Resistant | | |
| Uses | Film | | |
| | Tubing | | |
| Forms | Pellets | | |
| Processing Method | Film Extrusion | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.900 | g/cm ³ | |
| Apparent Density | 0.48 to 0.52 | g/cm ³ | |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 5.0 to 7.0 | g/10 min | ASTM D1238 |
| Ash Content | 0.025 to 0.050 | % | |
| Gel Content ¹ | | | |
| > 200.0 µm | 250 | pcs/m ² | |
| 0.700 to 1.50 mm | 3.00 | pcs/m ² | |
| 1.50 to 2.50 mm | 0.00 | pcs/m ² | |
| > 2.50 mm | 0.00 | pcs/m ² | |
| Thermal Creep Temperature ² | 90 to 96 | °C | |
| Thermal-oxidative Deterioration (150°C) | 15.0 | day | |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 82 to 95 | | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 31.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 9.0 | % | ASTM D638 |
| Flexural Modulus | 1250 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | |
| Vicat Softening Temperature ³ | 150 to 154 | °C | |

| NOTE | |
|------|-----------------------------------|
| 1. | p.4.8 TU 2211-136-05766801-2006 |
| 2. | at load 0.46 H/mm ² |
| 3. | in liquid medium under force 10 H |

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