

HD-EX5

License Grade Code HM 9450 F

Product Description

“EX5 (HM 9450 F)” is a high-Density polyethylene with Butene-1 as comonomer. It is a high molar mass for blown film with in comparison to EX4 lower stiffness and increased tenacity. The product has good toughness, low gel level and good tear strength.

Stabilization: Ca-Stearate, Zn-Stearate, Irgafos168

Packaging

25 Kg bag

Applications

- Blown films with paper like quality.
- Suitable for counter bags.
- Carrier bags.
- Wrapping films and sheets.
- Blending partner.

Typical Data

| Property | Unit | Typical Value | Test Method |
|---|-------------------|------------------|-----------------|
| Physical | | | |
| Melt Flow Rate (MFR) (190 °C/2.16Kg) (190 °C/5Kg) (190 °C/21.6Kg) | g/10min | --- 0.28 8 | ISO 1133 |
| Density | g/cm ³ | 0. 949 | ISO 1183 |
| Film Properties | | | |
| Impact Strength | gr | 220 | ASTM D 1709 |
| Tear Strength TD | mN | 450 | ISO 6383-2 |
| Tear Strength MD | mN | 200 | ISO 6383-2 |
| Yield Stress TD | Mpa | 20 | ISO 527 |
| Yield Stress MD | Mpa | 18 | ISO 527 |
| Tensile Strength TD | MPa | 40 | ISO 527 |
| Tensile Strength MD | MPa | 45 | ISO 527 |
| Elongation at break TD | % | 450 | ISO 527 |
| Elongation at break MD | % | 400 | ISO 527 |
| Modulus of elasticity TD | Mpa | 500 | ISO 527 |
| Modulus of elasticity MD | Mpa | 400 | ISO 527 |
| Secant Modulus | Mpa | | ISO 527 |
| Hardness Shore D | --- | 60 | ISO 868 |
| Gel size | µm | ≤120 | Internal Method |
| Gel Number | - | ≤3 | Internal Method |
| Thermal Properties | | | |
| Vicat Softening Temperature | °C | 75 | ISO 306 |
| Melting Point | °C | 136 | ISO 3146 |

Processing Condition

Recommended melt temperature: 200-230 °C