# HIPTEN® 22020

Low Density Polyethylene

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## Message:

HIPTEN® 22020 is low density polyethylene resin developed for film extrusion. This grade has good mechanical and optical properties and good draw down characteristics. Film produced from this grade has good appearance and heat sealability, good moisture barrier and adhesion properties.
Applications:
Production of laminated food-packaging materials.
HIPTEN® 22020 has Health Certificate issued by Institute for Health Protection of Serbia.

| General Information | | | |
|---|---|---|---|
| Features | Moisture proof<br>Optical<br>Recyclable materials<br>Good stripping<br>Good heat sealability<br>Good adhesion<br>Compliance of Food Exposure<br>Good appearance | | |
| Uses | Films<br>Laminate<br>Food packaging | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| Forms | Particle | | |
| Processing Method | Film extrusion | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 0.921 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ISO 1133 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore D) | 46 | | ISO 868 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress | | | ISO 527-2 |
| Yield | 9.00 | MPa | ISO 527-2 |
| Fracture | 12.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 600 | % | ISO 527-2 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| Film Thickness - Tested | 40 | µm | |
| Tensile Stress | | | ISO 527-3 |
| TD: Yield, 40 µm, blown film | 12.0 | MPa | ISO 527-3 |

| | | | |
|---|---|---|---|
| MD: Broken, 40 µm, blown film | 20.0 | MPa | ISO 527-3 |
| TD: Broken, 40 µm, blown film | 19.0 | MPa | ISO 527-3 |
| Tensile Elongation | | | ISO 527-3 |
| MD: Broken, 40 µm, blown film | 650 | % | ISO 527-3 |
| TD: Broken, 40 µm, blown film | 750 | % | ISO 527-3 |
| Dart Drop Impact (40 µm) | 120 | g | ASTM D1709A |
| Elmendorf Tear Strength [1] | | | ASTM D1922 |
| MD : 40.0 µm | 135.1 | kN/m | ASTM D1922 |
| TD : 40.0 µm | 173.7 | kN/m | ASTM D1922 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 96.0 | °C | ISO 306 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 180 - 200 | °C | |
| Extrusion instructions | | | |
| Blow-up ratio: 2:1 to 3:1 | | | |
| NOTE | | | |
| 1. | Blown Film | | |



## Recommended distributors for this material

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