

SABIC® LDPE 2402TC32

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2402TC32 is a grade with elevated density clarity grade with a high level of anti block and an average amount of slip agent (E=erucamide). The grade has good optics, can be easily processed and has an excellent draw down ability.

SABIC® LDPE 2402TC32 is specially suitable for thin stiffer films for automatic packaging purposes for e.g. food, bread and other consumer goods. The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

| General Information | | | |
|---|--|-------------------|-------------|
| Additive | Erucamide Lubricating Additive (600 ppm) | | |
| | Anti-caking agent (800 ppm) | | |
| Features | High caking resistance | | |
| | The smell is low to none | | |
| | Definition, high | | |
| | Moderate smoothness | | |
| Uses | Packaging | | |
| | Films | | |
| | Food packaging | | |
| Agency Ratings | EC 2023/2006 | | |
| | FDA 21 CFR 177.1520 | | |
| Forms | Particle | | |
| Processing Method | Blow film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.924 | g/cm ³ | ISO 1183/A |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.5 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Coefficient of Friction (Blown Film) | 0.20 | | ASTM D1894 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested ¹ | 25 | µm | |
| Tensile Modulus | | | ISO 527-3 |
| MD: 25 µm, blown film | 240 | MPa | ISO 527-3 |
| TD: 25 µm, blown film | 240 | MPa | ISO 527-3 |
| Tensile Stress | | | ISO 527-3 |
| MD: Yield, 25 µm, blown film | 12.0 | MPa | ISO 527-3 |
| TD: Yield, 25 µm, blown film | 12.0 | MPa | ISO 527-3 |

| MD: 25 µm, blown film | 30.0 | MPa | ISO 527-3 |
|--|---------------|------|-----------------|
| TD: 25 µm, blown film | 20.0 | MPa | ISO 527-3 |
| Tensile Elongation | | | ISO 527-3 |
| MD: Broken, 25 µm, blown film | > 100 | % | ISO 527-3 |
| TD: Broken, 25 µm, blown film | > 500 | % | ISO 527-3 |
| Impact | Nominal Value | Unit | Test Method |
| Impact Strength - Blown Film (25.0 µm) | 150 | J/cm | ASTM D4272 |
| Blocking - Blown Film (25.0 µm) | | g | Internal method |
| Re-blocking - Blown Film (25.0 µm) | | g | Internal method |
| Tear Strength ² | | | ISO 6383-2 |
| MD : 25.0 µm | 80.0 | kN/m | ISO 6383-2 |
| TD : 25.0 µm | 30.0 | kN/m | ISO 6383-2 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 95.0 | °C | ISO 306/A |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 25.0 µm, Blown Film) | 55 | | ASTM D2457 |
| Haze (25.0 µm, Blown Film) | 10 | % | ASTM D1003A |
| Additional Information | Nominal Value | Unit | Test Method |

Film properties have been measured at film of 25 µm with a BUR of 3. The film has been produced on Kiefel IBC blown film line with 200 kg/h. Die size 200 mm, die gap 0.8 mm.

NOTE

1. Blown Film
2. Blown Film

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