# Eltex® PF6012KJ

Metallocene Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

## Message:

Eltex® PF6012KJ is a metallocene LLDPE resin produced in Europe.
Applications
Eltex® PF6012KJ has been developed for use in highly technical film like food packaging, lamination, and other thin film applications where superior mechanical and sealing performance is required. In addition, Eltex® PF6012KJ offers easy extrudability and distinctive sealing properties.
Benefits and Features
Eltex® PF6012KJ is a polyethylene copolymer containing hexene-1 as the comonomer produced with a metallocene catalyst. It offers the following properties:
Outstanding impact strength
Low blocking for the film together with low abrasive character for the extrusion equipment
Very low sealing initiation temperature
Excellent Hot Tack strength, particularly advantageous for HFFS packaging lines
Very good bubble stability and extrudability similar to best LLDPE blown film grade
Properties ideally balanced in machine and transverse directions
Eltex® PF6012KJ is formulated with slip and antiblocking agents that offer high slip with easy opening properties. Addition of other polymers, masterbatches and pigments may alter film slip and antiblock performance.

| General Information | |
|---|---|
| Additive | Erucamide Lubricating Additive (1000 ppm)<br>Anti-caking agent (300 ppm) 2<br>Antioxidation |
| Features | Low density<br>Low temperature heat sealability<br>High smoothness<br>Copolymer<br>hexene comonomer<br>Anti-caking property<br>Antioxidation<br>Impact resistance, high<br>Workability, good<br>Compliance of Food Exposure |
| Uses | Films<br>Laminate<br>Food packaging |
| RoHS Compliance | Contact manufacturer |
| Forms | Particle |
| Processing Method | Lamination method<br>Extrusion |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density (23°C) | 0.913 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.3 | g/10 min | ISO 1133 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| Film Thickness - Tested | 25 | µm | |
| Tensile Modulus | | | ISO 527-3 |
| 1% secant, MD: 25 µm, blown film | 140 | MPa | ISO 527-3 |
| 1% secant, TD: 25 µm, blown film | 140 | MPa | ISO 527-3 |
| Tensile Stress | | | ISO 527-3 |
| MD: Yield, 25 µm, blown film | 8.00 | MPa | ISO 527-3 |
| TD: Yield, 25 µm, blown film | 8.00 | MPa | ISO 527-3 |
| MD: Broken, 25 µm, blown film | 65.0 | MPa | ISO 527-3 |
| TD: Broken, 25 µm, blown film | 64.0 | MPa | ISO 527-3 |
| Tensile Elongation | | | ISO 527-3 |
| MD: Broken, 25 µm, blown film | 480 | % | ISO 527-3 |
| TD: Broken, 25 µm, blown film | 610 | % | ISO 527-3 |
| Dart Drop Impact (25 µm, Blown Film) | > 1600 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | ASTM D1922 |
| MD: 25 µm, blown film | 180 | g | ASTM D1922 |
| TD: 25 µm, blown film | 360 | g | ASTM D1922 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Melting Temperature (DSC) | 97.0 - 114 | °C | Internal method |
| **Optical** | **Nominal Value** | **Unit** | **Test Method** |
| Gloss (45°, 25.0 µm, Blown Film) | 79 | | ASTM D2457 |
| Haze (25.0 µm, Blown Film) | 4.0 | % | ASTM D1003 |
| **Extrusion** | **Nominal Value** | **Unit** | |
| Melt Temperature | 190 - 230 | °C | |



## Recommended distributors for this material

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