

LL 0220 KJ **Liner Low Density polyethylene**

- Product Description

TPC

Tabriz Petrochemical Company

Address :

Azarshahr Road , Next to the tabriz Refinery Tabriz , Iran

LL0220KJ are linear low density polyethylene copolymers containing butane-1 as the comonomer. In lean blends, this resin offer greater drawdown compared to LDPE neat and produced Films are tough with better tear resistance, high tensile stress and good hot-tack properties.

LL0220KJ offers high slip film with easy opening properties when used pure in thickness rang35-100µm. Addition of other polymers or use other thickness may alter film slip and antiblock performance.

- Typical data

| 45 - 354 | Property | Test Method | Unit | Typical Valu | |
|----------|---|-------------------|--------------------|--------------|--|
| | Phys | sical Properties | | | |
| MF | FI(190°C/ 2.16Kg) | ACTM D 1229 | /10 | 2.3 | |
| MF | FI(190°C / 21.6Kg) | ASTM D 1238 | gr/10min | - | |
| De | nsity | ASTM D 1505 | gr/cm ³ | 0.920 | |
| | Opt | ical Properties | | | |
| Ha | ze | ASTM D 1003 | % | 12 | |
| Glo | oss(45°) | ASTM D 2457 | % | 30 | |
| | A CONTRACTOR OF | ormulation | | | |
| | Anti Oxidant | | | √ √ √ | |
| | Anti Block | | | | |
| | Slip Agent | | | | |
| | Mecha | anical Properties | | | |
| Da | rt Drop Impact | ASTM D 1709(A) | g | 90 | |
| Tea | ar Strength MD/TD | ASTM D 1922 | gr/25µm | 80/35 | |
| Tei | nsile Strength at yield MD/TD | ASTM D 882 | MPa | 10/11 | |
| Ter | nsile Strength at Break MD/TD | ASTM D 882 | MPa | 30/25 | |
| Elc | ongation at Break MD/TD | ASTM D 882 | % | 1000/1100 | |
| Sec | cant Modulus MD/TD | ASTM D 882 | MPa | 195/205 | |
| Pu | ncture Resistance | BPC | N.Cm | 800 | |
| Co | efficient of friction | ASTM D1894 | | >0.5 | |
| | The | mal Properties | | | |
| Vie | cat Softening Temperature | ASTM D 1525 | °C | 100 | |

38µ, 2.5:1 blow-up ratio, 225°C melt temperature.

The above data are typical laboratory average. They are intended to serve as guide only.

تلفن تماس : ۴۴۵۵۴۶۰۰-۲۱ تلفن همراه : ۴۴۳۵۳۴۳-۹۱۲

| 4 | | 0209 AA nsity polyethyle | ene | |
|---|--|------------------------------------|-------------------------|--------------------------------|
| અજી | - Product Description | | | |
| TPC Tabriz Petrochemical Company | LL0209AA are linear low de containing butane-1 as the offer greater drawdown cor are tough with better tear r hot-tack properties. | co-monomer. In npared to LDPE n | lean blend eat and p | ls, this resin roduced Film |
| Address : Azarshahr Road , Next | - Typical data | | | |
| to the tabriz Refinery Tabriz , Iran | Property | Test Method | Unit | Typical Value |
| | | | Ofac | Typical value |
| | | sical Properties | k I | 12 |
| Po. BOX: 51745 - 354 | MFI(190°C/2.16Kg) | ASTM D 1238 | gr/10Min | 0.9 |
| | MFI(190°C/21.6Kg) | | | 29.0 |
| Fel: [+98(0)411]4280000 | Density | ASTM D 1505 | gr/cm ³ | 0.920 |
| | Opt | tical Properties | | |
| FAX: | | ASTM D 1003 | % | 12 |
| Tel: [+98(0)411]4201487 | Gloss(45°) | ASTM D 2457 | % | 50 |
| | | Formulation | ř | |
| | Anti Oxidant | | | \checkmark |
| | Anti Block | | | 859 |
| | Slip Agent | • • | | 3.49 |
| | Mech | anical Properties | | 3. |
| | Dart Drop Impact | ASTM D 1709(A) | g | 140 |
| | Tear Strength MD/TD | ASTM D 1922 | gr/25µm | 145/370 |
| | Tensile Strength at yield MD TD | ASTM D 882 | MPa | 10/11 |
| | Tensile Strength at Break MD/TD | ASTM D 882 | MPa | 41/32 |
| | Elongation at Break MD/TD | ASTM D 882 | % | 620/840 |
| | Secant Modulus MD/TD | ASTM D 882 | MPa | 195/205 |
| | Puncture Resistance | BPC | N.Cm | 800 |
| | Coefficient of friction | ASTM D1894 | | > 0.5 |
| | The | rmal Properties | | |
| | Vicat Softening Temperature | ASTM D 1525 | °C | 100 |

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| <u>ک</u> | | | . 0209 KJ ensity polyethyl | ene | |
|--|----------|--|---|---|---|
| <u> </u> | | | | | |
| TPC | - Produc | ct Description | | | |
| abriz Petrochemical Company | | LL0209KJ are linear low densit | | | ntainina huta |
| Address : Azarshahr Road , Next to the tabriz Refinery Tabriz , Iran | | as the comonomer. In lean bler compared to LDPE neat and pro resistance, high tensile stress a LL0209KJ offers high slip film w thickness rang 35-100µm. Add may alter film slip and anti-bloo al data | nds, this resin offer oduced Films are to and good hot-tack p with easy opening pr ition of other polym | greater dr ugh with b roperties. roperties v | rawdown oetter tear vhen used pur |
| °o. BOX: 5 1745 - 354 | | Property | Test Method | Unit | Typical Value |
| | | Ph | ysical Properties | | |
| el: [+98(0)411]4280000 | | MFI(190°C/ 2.16Kg) | | | 0.9 |
| a: [+30(0)+11]+200000 | | MFI(190°C/21.6Kg) | ASTM D 1238 | gr/10Min | 29.0 |
| FAX: | | Density | ASTM D 1505 | gr/cm ³ | 0.920 |
| el: [+98(0)411]4201487 | | O | ptical Properties | | |
| | 100 | Haze | ASTM D 1003 | % | 12 |
| | | Gloss(45°) | ASTM D 2457 | % | 50 |
| | | | Formulation | | 1 |
| | | Anti Oxidant | | | N |
| | | Anti Block | | | \checkmark |
| | | Slip Agent | • | | V |
| | | Mec | hanical Properties | | |
| | 01 | Dart Drop Impact | ASTM D 1709(A) | g | 140 |
| | H | Tear Strength MD/TD | ASTM D 1922 | gr/25µm | 145/370 |
| | | Tensile Strength at yield MD/TD | ASTM D 882 | MPa | 10/11 |
| | | Tensile Strength at Break MD/TD | ASTM D 882 | MPa | 41/32 |
| | | Elongation at Break MD/TD | ASTM D 882 | % | 620/840 |
| | | Secant Modulus MD/TD | ASTM D 882 | MPa | 195/205 |
| | | Puncture Resistance | BPC | N.Cm | 800 |
| | | Coefficient of friction | ASTM D1894 | | 0.13 |
| | | Th | ermal Properties | | |
| | | | | | |

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Product Description:

"LL 0209AA" is a LLDPE copolymer with butene as comonomer which contains antioxidant.
It is recommended for general purpose applications.
It is suitable for blending with conventional LDPE.
Film made from pure LL 02090 AA has the following advantages over conventional LDPE:
Better sealing, higher puncture resistance.
Greater drawdown capability.
Higher tensile strength.
Neutralizer: Calcium Stearate.
Antioxidant: Irganox1010, Irganox168

Applications:

Food Grade

Δ

- Heave duty sacks, agricultural films, liners.
- Produce bags, stretch film

| No. | Property | Result | Value | Unit | Test Method |
|-----|---------------------------------|--------|---------|-------------------|-------------|
| 1 🕨 | MFR (190°C/2.16kg) | | 0.9 | g/10min | ISO 1133 |
| 2 | Density | On! | 920 | Kg/m ³ | ISO 1183 |
| 3 | Tensile Strength at Yield MD/TD | 1.01 | 10/11 | MPa | ISO 527 |
| 4 🕨 | Tensile Strength at Break MD/TD | | 41/32 | MPa | ISO 527 |
| 5 🕨 | Elongation at Break MD/TD | | 620/840 | % | ISO 527 |
| 6 🕨 | Tear Strength MD/TD | | 145/370 | g/25µ | ASTM D1922 |
| 7 🕨 | Dart Drop Impact | | 150 | g | ASTM D1709 |

Typical properties: these are not to be construed as specifications.

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1 Product Description:



"LL 0209KJ" is a LLDPE copolymer with butene as comonomer which contains antioxidant, Slip and antiblock additives. It gives film of high slip which is easily separable.

It is recommended for general purpose applications. It is suitable for blending with conventional LDPE. Film made from pure LL 0209 KJ has the following advantages over conventional LDPE:

Easier sealing. Greater drawdown capability. Higher tensile strength. Higher puncture resistance. 2 Applications:

- Food Grade
- refuse sacks.
- produce bags, carrier bags.

| | High Slip/Antiblock Grade | e l | σ |
|-------------|---------------------------|--------------------------|---|
| Additive | Silica | Talc | П |
| Neutralizer | Calcium Stearate | Calcium Stearate | |
| Antioxidant | Irganox1010 , Irgafos168 | Irganox1010 , Irgafos168 | |
| Antiblock | Siloblock47 | Talc ABT 250 | |
| Slip | Erucamide | Erucamide | |

| No. | Property | Value | Unit | Test Method |
|-----|---------------------------------|---------|-------------------|-------------|
| 1) | MFR (190°C/2.16kg) | 0.9 | g/10min | ISO 1133 |
| 2) | Density | 921 | Kg/m ³ | ISO 1183 |
| 3 ► | Tensile Strength at Yield MD/TD | 10/11 | MPa | ISO 527 |
| 4 🕨 | Tensile Strength at Break MD/TD | 41/32 | MPa | ISO 527 |
| 5 • | Elongation at Break MD/TD | 620/840 | % | ISO 527 |
| 6 🕨 | Tear Strength MD/TD 145/370 | | g/25µ | ASTM D1922 |
| 7 🕨 | Dart Drop Impact | 150 | g | ASTM D1709 |

Typical properties: these are not to be construed as specifications.

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