Manufacturer website: https://www.petkim.com.tr/

**Technical Data Sheet**

# *PETILEN G08-21TA*
# *Low Density Polyethylene (LDPE)*

## Description

PETILEN G08-21TA is a low density polyethylene resin produced by high pressure tubular process. It has easy processability thanks to its slip and antiblock additives.

## Applications

Shrink film, heavy duty bags, lamination film, film production for general purpose packaging.

## Additives

PETILEN G08-21TA contains medium level of antiblock and slip agents. It is heat stabilized.

| | | |
|---|---|---|
| Antiblock | : | 1000 ppm |
| Slip | : | 500 ppm |
| Heat Stabilizer | : | Yes |

| Properties | Typical Values (*) | Units | Test Methods |
|---|---|---|---|
| **Resin Properties** | | | |
| Melt Flow Rate (190°C/2.16 kg) | 0.85 | g/10 min | ASTM D1238 |
| Density, 23°C | 0.921 | g/cm³ | ASTM D1505 |
| Melting Point (DSC, 2nd heating) | 109 | °C | ASTM D3418 |
| **Film Properties (**)** | | | |
| Tensile Strength at Yield, MD | 12 | MPa | ASTM D882 |
| Tensile Strength at Yield, TD | 11 | MPa | ASTM D882 |
| Tensile Strength at Break, MD | 25 | MPa | ASTM D882 |
| Tensile Strength at Break, TD | 21 | MPa | ASTM D882 |
| Elongation at Break, MD | >200 | % | ASTM D882 |
| Elongation at Break, TD | >500 | % | ASTM D882 |
| Tear Strength, MD | 180 | cN | ASTM D1922 |
| Tear Strength, TD | 240 | cN | ASTM D1922 |
| Dart Drop Impact, $F_{50}$ | 200 | g | ASTM D1709A |
| Coefficient of Friction | <0.2 | - | ASTM D1894 |
| **Optical Properties** | | | |
| Haze | 8.8 | % | ASTM D1003 |
| Gloss, 45° | 58 | GU | ASTM D2457 |
| **Thermal Properties** | | | |
| Vicat Softening Point, 10 N | 90 | °C | ASTM D1525 |

*(*) These are typical properties only and are not to be construed as specifications. Customers should confirm results by their own tests.*
*(**) Film properties are measured on 50 µm blown film, Blow up ratio (BUR) 3:1, melt temperature ~190°C.*
*MD: Machine Direction, TD: Transverse Direction.*



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## Recommended Processing Conditions

Blown film extrusion applications;
Typical zone temperatures: 150 - 210°C
Typical melt temperature: 185 - 205°C
Typical blow-up ratio (BUR): 2:1 - 3:1

Processing conditions should be optimized for different equipment design.

## Product Safety and Compliance with Regulations

Detailed safety information of the products is given in the Product Safety Data Sheet. Compliance information of the products with the relevant legislation is detailed in the Declarations of Compliance with Food Contact, Compliance with Chemical Regulations and Additive Origin Declarations. Current declarations are available on the website. For more detailed information, please contact your sales representatives.

## Packing and Storage

Available in PE bags or PP Big Bags. The product should be stored in a dry area with an ambient temperature below 50°C. It should be kept away from sunlight, sparks, heat and flame. Improper storage may result in odor development, discoloration, or deterioration of physical properties. Processing within 6 months of delivery is recommended to ensure optimal performance. Prior to processing PE product bags shall be kept in production area for at least 12 hours.

## Recycling

This product is non-hazardous and fully recyclable via standard polyethylene recycling streams.

## Disclaimer

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