

# PETILEN G08-21T

## Low Density Polyethylene (LDPE)

### Description

PETILEN G08-21T is a low density polyethylene resin produced by high pressure tubular process. Having high average molecular weight, the product is developed for general purpose applications. PETILEN G08-21T contains no additives.

### Applications

Blown film extrusion: thin shrink film, heavy duty bags

Blow molding: bottles

### Compliance to Regulations

The formulation and production of PETILEN G08-21T conforms to the compositional requirements of the Commission Regulation (EU) No. 10/2011.

Properties	Typical Value (*)	Unit	Test Method
<b>Resin Properties</b>			
Melt Flow Rate (190°C/2.16 kg)	0.85	g/10 min	ASTM D1238
Density, 23°C	0.921	g/cm <sup>3</sup>	ASTM D1505
Melting Point (DSC)	109	°C	ASTM D3418
<b>Film Properties (**)</b>			
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 <sub>50</sub>		g	ASTM D1709A
Coefficient of Friction		-	ASTM D1894
<b>Optical Properties</b>			
Haze	7.2	%	ASTM D1003
Gloss, 45°	68	GU	ASTM D2457
<b>Thermal Properties</b>			
Vicat Softening Point, 10 N	95	°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.

# **PETILEN G08-21T**

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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.

### **Health, Safety and Food Contact Regulations**

The detailed information of the PETILEN G08-21T product is given in Material Safety Data Sheet and Food Contact Declaration of the product. Please contact your sales representatives for the food contact application compliance (e.g. EU, FDA) and other regulatory documents.

### **Storage**

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. Inappropriate storage conditions can lead to color changes and the deterioration in physical properties. It is advised to process PE resins within 6 months after delivery.

### **Recycling**

The product is not hazardous or toxic and it is suitable for recycling. If it can't be recycled, the waste material can be disposed at a suitable landfill site, or at an approved waste incineration facility in accordance with applicable local, provincial, state and federal regulations.

### **Medical Applications Policy**

The product mentioned herein is not tested for use in pharmaceutical/medical applications. It is the responsibility of the final product manufacturer to determine that PETKIM product is suitable for intended use.

### **Disclaimer**

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