

PETILEN F2-21T

Low Density Polyethylene (LDPE)

Description

PETILEN F2-21T is a low density polyethylene resin produced by high pressure tubular process. The product is developed for general purpose blown film applications used in packaging industry.

Applications

Film extrusion: film production for general purpose and display packaging

Additives

PETILEN F2-21T contains medium level of antiblock and slip agent. It is heat stabilized.

Compliance to Regulations

The formulation and production of PETILEN F2-21T conforms to the compositional requirements of the Commission Regulation (EU) No. 10/2011.

Properties	Typical Value (*)	Unit	Test Method
Resin Properties			
Melt Flow Rate (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Density, 23°C	0.921	g/cm ³	ASTM D1505
Melting Point (DSC)	108	°C	ASTM D3418
Film Properties (**)			
Tensile Strength at Yield, MD	11	MPa	ASTM D882
Tensile Strength at Yield, TD	10	MPa	ASTM D882
Tensile Strength at Break, MD	23	MPa	ASTM D882
Tensile Strength at Break, TD	17	MPa	ASTM D882
Elongation at Break, MD	>200	%	ASTM D882
Elongation at Break, TD	>500	%	ASTM D882
Tear Strength, MD	250	cN	ASTM D1922
Tear Strength, TD	220	cN	ASTM D1922
Dart Drop Impact, F ₅₀	115	g	ASTM D1709A
Coefficient of Friction	<0.2	-	ASTM D1894
Optical Properties			
Haze	7.0	%	ASTM D1003
Gloss, 45°	66	GU	ASTM D2457
Thermal Properties			
Vicat Softening Point, 10 N	89	°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 35 µm blown film, Blow up ratio (BUR) 2.5:1, melt temperature -170°C.

MD: Machine Direction, TD: Transverse Direction.

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Recommended Processing Conditions

Film extrusion applications;
Typical zone temperature: 140 - 180°C
Typical melt temperature: 160 - 180°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 F2-21T product is given in Safety Data Sheet and Food Contact Declaration of the product. Please contact your sales representatives or visit web site for the food contact application compliance (e.g. EU, FDA) and other regulatory documents.

Packing and Storage

The material is packaged in PE bags or in 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. 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 using available recycling methods.

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.

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