

PETILEN H2-21T

Low Density Polyethylene (LDPE)

Description

PETILEN H2-21T is a low density polyethylene resin produced by high pressure tubular process. Having medium average molecular weight, the product is developed for general purpose applications. PETILEN H2-21T contains no additives.

Applications

General purpose coating: wire coating, cable sheath
Sheet extrusion: foam sheets
Pipe extrusion: foam pipes
Film extrusion: lamination, citrus fruit bags

Properties	Typical Values (*)	Units	Test Methods
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, 2nd heating)	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	>1	-	ASTM D1894
Optical Properties			
Haze	6.8	%	ASTM D1003
Gloss, 45°	67	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

Blown film extrusion applications;
Typical zone temperatures: 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.

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.

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