

Technical Data Sheet

PETILEN H5-21T
Low Density Polyethylene (LDPE)**Description**

PETILEN H5-21T 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 H5-21T contains no additives.

Applications

Extrusion coating: paper coating, cardboard coating, aluminum foil coating
Masterbatch and compound production: colour and filler masterbatches, compound production
Injection molding: kitchen goods, toys, caps and closures

Compliance to Regulations

The formulation and production of PETILEN H5-21T conforms to the compositional requirements of the Commission Regulation (EU) No. 10/2011.

Properties	Typical Values (*)	Units	Test Methods
Resin Properties			
Melt Flow Rate (190°C/2.16 kg)	4.7	g/10 min	ASTM D1238
Density, 23°C	0.921	g/cm ³	ASTM D1505
Melting Point (DSC, 2nd heating)	108	°C	ASTM D3418
Mechanical Properties (**)			
Tensile Strength at Yield	8	MPa	ASTM D638
Tensile Strength at Break	12	MPa	ASTM D638
Elongation at Break	625	%	ASTM D638
Hardness (Shore D)	46	-	ASTM D2240
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.

(**) The values given are measured based on compression molded sheet.

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Recommended Processing Conditions

Extrusion coating applications;
Typical melt temperature: 280-330°C

Injection molding applications;
Typical melt temperature: 180 - 230°C
Typical mold temperature: 10 - 40°C

Processing conditions should be optimized for different equipment design.

Health, Safety and Food Contact Regulations

The detailed information of the PETILEN H5-21T 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 bad smell, 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 PETKİM product is suitable for intended use.

Disclaimer

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