PETLIN LD C150Y

Low Density Polyethylene

PETLIN (MALAYSIA) SDN BHD

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Technical Data

Product Description

PETLIN LD C150Y is a low density polyethylene resin for general purpose and film applications. It is produced by the state-of-the-art DSM Stamicarbon tubular process. It contains antioxidant (BHT free), slip and antiblock additives. It is intended primarily for blown film process.

General

Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet (English)		
Availability	• Asia Pacific		
Additive	• Antioxidant	• High Antiblock	• High Slip
Features	• Antioxidant • Food Contact Acceptable • Good Drawdown	• Heat Sealable • High Antiblocking • High Clarity	• High Gloss • High Slip • Low Gel
Uses	• Bags • Film	• Foam • Laundry Bags	
Agency Ratings	• FDA 21 CFR 177.1520		
Forms	• Pellets		
Processing Method	• Blown Film	• Film Extrusion	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.921 g/cm³	0.921 g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0 g/10 min	5.0 g/10 min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Coefficient of Friction	0.10	0.10	ASTM D1894
Films	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Film Thickness - Tested	0.98 mil	25 µm	
Film Thickness - Recommended / Available	150 to 60 µm	150 to 60 µm	
Tensile Modulus			ISO 527-3
MD : 0.98 mil (25 µm)	29300 psi	202 MPa	
TD : 0.98 mil (25 µm)	32500 psi	224 MPa	
Tensile Stress			ISO 527-3
MD : Break, 0.98 mil (25 µm)	3770 psi	26.0 MPa	
TD : Break, 0.98 mil (25 µm)	2180 psi	15.0 MPa	
Tensile Elongation			ISO 527-3
MD : Break, 0.98 mil (25 µm)	150 %	150 %	
TD : Break, 0.98 mil (25 µm)	610 %	610 %	
Dart Drop Impact (0.98 mil (25 µm))	86 g	86 g	ASTM D1709
Elmendorf Tear Strength			ISO 6383-2
MD : 0.98 mil (25 µm)	18000 lbf	80000 N	
TD : 0.98 mil (25 µm)	6700 lbf	30000 N	
Optical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Gloss (45°, 0.984 mil (25.0 µm))	66	66	ASTM D2457
Haze (0.984 mil (25.0 µm))	6.5 %	6.5 %	ASTM D1003

Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	293 to 329 °F	145 to 165 °C

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.

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