

PETLIN (MALAYSIA) SDN BHD (478535-T)

PRODUCT DATA SHEET



PETLIN LD N103X

Low Density Polyethylene

PETLIN LD N103X is a low density polyethylene resin for heavy duty film applications. It is produced by the state-of-the-art DSM Stamicarbon tubular process. It contains antioxidant (BHT free) additives. It is intended primarily for blown film process.

Characteristics : low gels, high strengths, outstanding shrink properties, very low energy consumption during processing.

Applications : heavy duty : shrink films, sacks, industrial liners ; construction films ; pond liners ; greenhouse films ; surface protection films.

Recommended gauges : 45 - 280 microns

Extrusion Conditions : for blown film : melt temperature 170-190°C , recommended blow-up-ratio of 1.5 to 3.5 : 1

Typical Data : (45 microns film)

Properties	Units	Typical values	Test methods
<u>Polymer properties :</u>			
Melt Flow Rate:	dg/min	0.3	ISO 1133
Density	kg/m ³	921	ISO 1183 (A)
<u>Optical properties :</u>			
Gloss (45°)	%	43	ASTM D2457
Haze	%	14	ASTM D1003A
<u>Mechanical properties :</u>			
Impact strength	g	266	ASTM D1709
Tear strength	TD kN/m	25	ISO 6383-2
	MD kN/m	20	
Tensile stress at break	TD N/mm ²	27	ISO R527-3
	MD N/mm ²	30	
Strain at break	TD %	545	ISO R527-3
	MD %	169	
Modulus of elasticity	TD N/mm ²	260	ISO R527-3
	MD N/mm ²	245	
Coefficient of friction	-	0.7	ASTM D1894

The properties shown above are typical values and are not to be taken as specifications.

Food contact approval status :

This material complies with FDA 21 CFR 177.1520 when used unmodified and according to good manufacturing practices for food contact applications. Accordingly, this material may be used in all food contact applications.

IMPORTANT NOTICE :

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20040608 Version no. : 03