

PETLIN (MALAYSIA) SDN BHD (478535-T)

PRODUCT DATA SHEET



PETLIN LD N109X Low Density Polyethylene

PETLIN LD N109X is a low density polyethylene resin for medium 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, good clarity, good shrink properties.
Applications	: medium duty : thin shrink films, sacks, industrial liners, carrier bags ; bubble films ; foam sheets ; lamination films ; deep freeze films ; agriculture films ; surface protection films.
Recommended gauges	: 30 - 150 microns
Extrusion Conditions	: for blown film : melt temperature 160-180°C , recommended blow-up-ratio of 2 to 3 : 1
Typical Data	: (45 microns film)

Properties	Units	Typical values	Test methods
<u>Polymer properties :</u>			
Melt Flow Rate:	dg/min	0.85	ISO 1133
Density	kg/m ³	921	ISO 1183 (A)
<u>Optical properties :</u>			
Gloss (45°)	%	59	ASTM D2457
Haze	%	8.4	ASTM D1003A
<u>Mechanical properties :</u>			
Impact strength	g	247	ASTM D1709
Tear strength	TD kN/m	30	ISO 6383-2
	MD kN/m	40	
Tensile stress at break	TD N/mm ²	21	ISO R527-3
	MD N/mm ²	26	
Strain at break	TD %	550	ISO R527-3
	MD %	244	
Modulus of elasticity	TD N/mm ²	240	ISO R527-3
	MD N/mm ²	230	
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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