PETLIN LD N103X

Low Density Polyethylene

PETLIN (MALAYSIA) SDN BHD

Message:

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.

General Information	
Additive	Antioxidant
Features	Antioxidant Food Contact Acceptable High Strength Low Gel Low Shrinkage
Uses	Construction Applications Film Heavy-duty Bags Liners
Agency Ratings	FDA 21 CFR 177.1520
Forms	Pellets
Processing Method	Blown Film Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction	0.70		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	45	µm	
Film Thickness - Recommended / Available	45 to 280 µm		
Tensile Modulus			ISO 527-3
MD : 45 µm	245	MPa	
TD : 45 µm	260	MPa	
Tensile Stress			ISO 527-3
MD : Break, 45 µm	30.0	MPa	
TD : Break, 45 µm	27.0	MPa	
Tensile Elongation			ISO 527-3

MD : Break, 45 µm	170	%	
TD : Break, 45 µm	550	%	
Dart Drop Impact (45 µm)	270	g	ASTM D1709
Elmendorf Tear Strength			ISO 6383-2
MD : 45 µm	20000	N	
TD : 45 µm	25000	N	
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 45.0 µm)	43		ASTM D2457
Haze (45.0 µm)	14	%	ASTM D1003
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	170 to 190	°C	

Recommended distributors for this material

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