

PETLIN (MALAYSIA) SDN BHD (478535-T)

PRODUCT DATA SHEET



PETLIN LD M050X

Low Density Polyethylene

PETLIN LD M050X is a low density polyethylene resin designed primarily for injection moulding applications. It is produced by the state-of-the-art DSM Stamicarbon tubular process. It contains antioxidant (BHT free) additives.

Characteristics : low gels, high flow, high gloss, high filler acceptance.

Applications : lids, housewares, masterbatches ; powder coating.

Extrusion Conditions : for injection moulding : recommended melt temperature 180-210°C.

Typical Data :

Properties	Units	Typical values	Test methods
<u>Polymer properties :</u>			
Melt Flow Rate:	dg/min	50	ISO 1133
Density	kg/m ³	919	ISO 1183 (A)
<u>Mechanical properties :</u>			
Hardness Shore D	-	43	ISO 868
Stress at yield	N/mm ²	8	ISO R527-2
Stress at break	N/mm ²	7	ISO R527-2
Strain at break	%	200	ISO R527-2
Modulus of elasticity	N/mm ²	168	ISO R527-2
Creep modulus			ISO 899
after 1 hr	N/mm ²	73	
after 1000 hr	N/mm ²	38	
Notch impact strength (Izod)			ISO 180/1A
at 23°C	kJ/m ²	41	
at -30°C	kJ/m ²	5	
<u>Thermal properties :</u>			
Vicat Softening Temperature	°C	78	ISO 306
Melting Point (DSC)	°C	104	DIN 53765
<u>Misc. properties :</u>			
ESCR	hr	0.5	DSM Method

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 (except holding food during cooking).

IMPORTANT NOTICE :

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