



# 2102TN42 25 µm

## Stamylan LD

Low density polyethylene for blown film

### Typical data

### General information

Properties	Units-SI	2102TN42 25 µm	Test methods
<b>Polymer properties</b>			
Melt Flow Rate	dg/min	1,9	ISO 1133
Density	kg/m <sup>3</sup>	921	ISO 1183 (A)
<b>Formulation level</b>			
Slip <sup>1)</sup>	ppm	500 E	DSM method
Anti block	ppm	2300	DSM method
Anti oxidant		-	
Processing aid (PPA)		-	
<b>Optical properties</b>			
Gloss (45°)	%	53	ASTM D2457
Haze	%	11	ASTM D1003A
Clarity	mV	28	DSM method
<b>Mechanical properties</b>			
Impact strength	kJ/m	18	ASTM D 4272
Tear strength TD	kN/m	22	ISO 6383-2
Tear strength MD	kN/m	72	ISO 6383-2
<b>Tensile test</b>			
Yield Stress TD	MPa	11	ISO R527-1
Yield Stress MD	MPa	12	
Tensile Stress at break TD	MPa	18	
Tensile Stress at break MD	MPa	32	
Strain at break TD	%	> 500	
Strain at break MD	%	> 100	
Modulus of elasticity TD	MPa	200	
Modulus of elasticity MD	MPa	200	
Coefficient of friction		0.1	ASTM D 1894
Blocking	g	< 5	DSM method
De-blocking	g	30	DSM method

DSM produces low density polyethylene by the tubular and the autoclave reactor processes. As a result the product range covers a wide variety of densities and melt flow rates. Further it includes a large number of grades with excellent optical properties which yield film with a high to very high clarity. Finally there is a wide variety of additives. For example, several grades contain the slip agent erucamide. Films produced from these materials have excellent surface properties and very low odour and taste levels, which is of advantage in e.g. food packaging.

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1) O= oleamide, E= erucamide

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