

Technical Datasheet

L2102TN42

1) Product Description:

The product "LDPE L2102TN42 (Low-Density Poly Ethylene)" covers a wide range of densities and melt flow rates. Further, it includes a large number of grades with excellent optical properties which provide firm and sufficient to great clarity. Therefore, 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 the level of odor and taste is very low, which offers a great advantage in e.g. food packaging.

2) Typical data:

PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUE*
Melt Flow Rate	ISO 1133	dg/min	1.9
Density	ISO 1183 (A)	kg/m ³	921
Gloss (45°)	ASTM D 2457	%	53
Haze	ASTM D 1003A	%	11
Clarity	DSM method	mV	28
Slip	DSM method	ppm	500E
Anti block	DSM method	ppm	2300
Impact strength	ASTM D 4272	kJ/m	18
Tear strength TD	ISO 6383-2	kN/m	22
Tear strength MD	ISO 6383-2	kN/m	72
Tensile test	ISO R527-1		
Yield stress TD		MPa	11
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	ASTM D 1894		0.1
Blocking	DSM method	g	<5
Re-Blocking	DSM method	g	30

* Film properties have been measured at 25µm films

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