



Technical Datasheet: LDPE 2102TN

Product Description:

SM 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 firm 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.

Applications:

Blown film, packaging bags, general purpose film.

Typical data:

Property	Test method	Unit	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 Yield Stress TD	ISO R527-1	MPa	11
Tensile test 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 D1894	-	0.1
Blocking	DSM method	g	<5
Re-Blocking	DSM method	g	30

* Typical values not to be construed as specifications.