

NAME: 2101TN47
Product Description:

Supplier produces low density polyethylene by the tubular reactor process. As a result, the product range covers a wide variety of densities and melt flow rates. The LDPE grade slate has a wide variety of slip and anti-block additives levels and includes a large numbers of grades with excellent optical properties.

Supplier tubular production technology guarantees a very low gel level and outstanding draw down ability, low odor and taste levels, which is of advantage for thin film processing and e.g. food packaging.

packaging material. Its low specific energy consumption and insignificant emissions to air and water designate polyethylene as the ecological alternative in comparison with the traditional packaging materials. Due to its good process ability. The grade has a low energy consumption during processing and has a good draw down ability. This grade enables high speed production of film without blocking. The material is very suitable for thin industrial film, thin packaging film and carrier bags which require high toughness in combination with high resistance to tearing, good optical properties and excellent converting properties.

Additives

Anti-oxidant - Anti block - Slip agent

Typical Data Properties	Value	Unit	Test Method
Polymer Properties			
Melt Flow Rate	0.85	dg/min	
Density	921	kg/m ³	
Formulation			
Slip	700 O	ppm	
Anti-block	1100	ppm	
Optical Properties			
Gloss (45)	49	%	ASTM D 2457
Haze	11	%	ASTM D 1003A
Clarity	37	mV	SABTEC method
Mechanical Properties			
Impact strength	30	kJ/m	ASTM D 4272
Tear strength TD	30	kN/m	
Tear strength MD	40	kN/m	
Tensile test			
Yield stress TD	11	MPa	
Yield Stress MD	12	MPa	
Tensile Stress at break TD	21	MPa	
Tensile Stress at break MD	24	MPa	
Strain at break TD	>500	%	
Strain at break MD	>200	%	
Modulus of elasticity TD	170	MPa	
Modulus of elasticity MD	160	MPa	
Coefficient of friction	0.1		ASTM D 1894
Blocking	10	g	
Re-Blocking	30	g	

* Film properties have been measured at **45µm** films.

Safety

Under normal conditions polyethylene do not present a toxic hazard through skin contact or inhalation. During processing contact with molten polymer and inhalation of volatilized fumes should be avoided. It is recommended to install exhaust hoods over processing machines and to keep working area well ventilated.