

Linear Low-density Polyethylene (LLDPE)

线型低密度聚乙烯

产品简介 Introduction

线型低密度聚乙烯是由乙烯与高级 α -烯烃(如丁烯-1、己烯-1)在低压下聚合而获得的合成树脂,是含短支链的中低密度聚乙烯,产品分子量分布较窄。

Linear low-density polyethylene (LLDPE) is a copolymer produced by polymerization of ethylene and α -olefin (such as butene-1, hexene-1) at low pressure. It is low and medium density polyethylene with short chains branching. LLDPE has a narrow molecular weight distribution.

浙江石化一期、二期LLDPE装置设计生产能力均为45万吨/年,总生产能力为90万吨一年,采用美国 Univation 公司的 Unipol 工艺技术(低压气相流化床工艺),产品具有较高的拉伸强度、冲击强度,优异的耐穿刺性及耐低温冲击性能。

The design production capacity of Zhejiang Petrochemical Phase I and Phase II LLDPE plants is 450,000 tons/year, and the total production capacity is 900,000 tons per year, this LLDPE Plant has selected the Unipol process (low pressure gas-phase fluidized bed technology) of US Univation company, The product has strong tensile and impact strength and excellent properties to resist puncture and impact at low temperatures.

主要用途 Applications

主要用于制作薄膜、注塑成型制品、旋转成型制品及电线电缆包覆材料等。

LLDPE is mainly used for making film injection-molding products, rotationally-molding products and wire & cable cover-ing material.

薄膜级 Flim Grade

产品牌号 Grades		DFDA7042	DFDC7050	DFDA7047
熔体质量流动速率 MFR	g/10min	2	2	1
密度 Density	g/cm ³	0.921	0.921	0.92
拉伸屈服应力 Tensile Strength at yield	MPa \geq	7	8	12
拉伸断裂标称应变 Stretching broken column nominal strain	% \geq	200	400	500
拉伸断裂应力 Tensile Strength at broken	MPa \geq			
鱼眼(个/1520cm ²) Fish Eyes (pcs/1520cm ²)	0.8mm \leq	8	6	6
	0.4mm \leq	20	15	15
主要用途 Applications		包装膜、农地膜、衬里膜 Packaging film, Agricultural film, Lining film	包装袋 Packing bag	包装膜、农地膜、衬里膜 Packaging film, Agricultura film, Lining film



注塑级 Injection Molding Grade

产品牌号 Grades		DNDA8320
熔体质量流动速率 MFR	g/10min	20
密度 Density	g/cm ³	0.924
拉伸屈服应力 Tensile Strength at yield	MPa \geq	10
拉伸断裂标称应变 Stretching broken column nominal strain	% \geq	80
简支梁冲击强度23°C Charpy Impact Strength	KJ/m ² \geq	20
主要用途 Applications		高档日常用品、垃圾箱、容器 High-end daily necessities, Garbage bins and Containers

滚塑级 Rotomolding Grade

产品牌号 Grades		DNDB7149U
熔体质量流动速率 MFR	g/10min	4.5
密度 Density	g/cm ³	0.934
拉伸屈服应力 Tensile Strength at yield	MPa \geq	12
拉伸断裂标称应变 Stretching broken column nominal strain	% \geq	100
主要用途 Applications		储罐、搅拌桶、水箱 Tanks, Mixing drums, Water tanks

