



OI9010

LINEAR LOW DENSITY POLYETHYLENE

BLOWN FILM GRADE

O I9010 is an octene comonomer based Linear Low Density Polyethylene (LLDPE), with optimum levels of antioxidant, antiblocking agent, slip additive and polymer processing aid. The grade is designed to make blown film for heavy duty applications and liquid packaging, where excellent seal through contamination, toughness, impact strength and tear resistance are desired.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Density (23°C)	ASTM D1505	g/cc	0.918
MFI (190°C/2.16 Kg)	ASTM D1238	g/10 min	0.90
Tensile Strength at Yield (MD/TD)	ASTM D882	MPa	12.5/13.0
Ultimate Tensile Strength (MD/TD)	ASTM D882	MPa	40.0/35.0
Elongation at Break (MD/TD)	ASTM D882	%	650/800
Dart Impact Strength, F ₅₀ (38 mm Dart, 66 cm Height)	ASTM D1709	g/μm	7.0
Coefficient of Friction	ASTM D1894	-	
Static			0.20
Dynamic			0.12
Gloss (60°)	ASTM D523	%	80
Tear Strength (MD/TD)	ASTM D1922	g/μm	13.8/27.6

*Typical Characteristics and not to be taken as specifications

** Typical Values (Mechanical) with 40 μ film made with 1.8 mm die gap & 2.25 BUR

Applications

Slip, anti-block grade for specialty film, liquid packaging.

Regulatory Information

- Meets the requirements stipulated in standard IS : 10146 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to the positive list of constituents as prescribed in IS : 10141. The grade and the additives incorporated in it also comply with the FDA:CFR Title 21, 177.1520, Olefin polymers.

Storage Recommendations

- Bags should be stored in dry / closed conditions at temperatures below 50°C and protected from UV / direct sunlight.

Reliance Industries Limited, Product and Application Technology Group.

Swastik Mill Compound, V.N. Purav Marg, Chembur, Mumbai-400 071. Tel.: +91-22-6767 7000. E-mail: polymer_patsupport@ril.com Website: www.ril.com

• The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or otherwise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. • The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorised agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.

Updated as of May, 2007