

LH0075

LOW DENSITY POLYETHYLENE

DESCRIPTION

LH0075 is a high molecular weight low density polyethylene film grade combining good flexible extrusion behavior and superior mechanical properties. Film made from LH0075 exhibits high dart impact combined with excellent yield and tensile strength and high stiffness. It can be processed on automatic machines. It possesses good dimensional stability.

LH0075 is chiefly recommended for extrusion of blown film. It is suitable for shrink film having a high resistance to hole formation and high degree of shrinkage on cooling. LH0075 contains antioxidant.

TYPICAL APPLICATIONS

LH0075 is well suited for wide range of applications due to its unique balance of properties. The superior mechanical properties will improve the functionability of the film. Some examples are; carrier bags, shrink film, industrial film, dust bin liners, large bottles, blow moulding of small containers, packaging of pharmaceutical products, packaging of foodstuffs and bottles for storage of chemical products.

TYPICAL PROPERTY VALUES

TYPICAL PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
MFI (190 °C /2.16 kg)	0.75	g/10 min	ASTM D 1238
Density	0.920	g/ml	TSTM 209 B ⁽¹⁾
MECHANICAL PROPERTIES			
Elongation @ break (MD)	300 min	%	ASTM D 882
Elongation @ break (TD)	450 min	%	ASTM D 882
Tensile @ break (MD)	170 min	Kg/cm ²	ASTM D 882
Dart impact	120 min	gr	ASTM D 1709
THERMAL PROPERTIES			
HDT	33	°C	ASTM D 648
Vicat softening point	95	°C	ASTM D 1525

(1)TSTM = Toyo Soda Standard Test Method

The above data are typical laboratory average . They are intended to serve as guides only.

Processing Conditions

LH0075 can be easily processed in all types of extruders. The temperature of the polymer at the die output should be in the range of 180-210 °C. In order to preserve the excellent mechanical properties, it is advisable to limit the predominant orientation of the film along the machine direction by working with a blow up ratio of 2. The film temperature at the nip rollers and haul-off should be kept as close as possible to the ambient temperature.

Food Content

The composition of products complies with the EC Directive 90.128.EEC for use in food contact applications.