Technical Information

DOW™ LDPE 7010E
Low Density Polyethylene Resin

Overview

LDPE 7010E is a High Speed Extrusion Coating Resin

Main Characteristics:
- Designed for high speed extrusion coating
- Robustness and consistency in melt drawing
- Reliable Sealant

Complies with:
- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520(c)2.2
- Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.919	g/cm³	0.919	g/cm³	ASTM D792
Base Density [1]	0.919	g/cm³	0.919	g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	8.5	g/10 min	8.5	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Stress (Break)	1650	psi	11.4	MPa	ISO 527-2
Tensile Strain (Break)	540	%	540	%	ISO 527-2
Flexural Modulus	30300	psi	209	MPa	ISO 178
Films	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Water Vapor Transmission Rate [2]	1.7	g·mil/100in²/atm/24 hr	0.67	g·mm/m²/atm/24 hr	ASTM F1249
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Vicat Softening Temperature	196	°F	91.0	°C	ASTM D1525
Melting Temperature (DSC)	226	°F	108	°C	Dow Method

Extrusion	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Melt Temperature	500 to 608	°F	260 to 320	°C	
Draw Down - From 15 g/m² at 100 m/min [3] (608°F (320°C))	1600	ft/min	480	m/min	Dow Method
Minimum Coating Weight - Calculated [3]	3.7	lb/ream	6.0	g/m²	Dow Method
Neck-in - 25 g/m² at 100 m/min [3] (608°F (320°C))	6.0	in	152.0	mm	Dow Method

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

[2] 1.0 mil (25μm) coating onto 50 lb Kraft paper.

[3] 25 g/m² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.

塑料专家 www.ponci.com.cn/wxb/ +13538586433 +18816996168