SEALUTION™ 140 Peel Polymer

The Dow Chemical Company - Peel Polymer

Monday, November 4, 2019

General Information

Product Description

SEALUTION 140 Peel Polymer is a peelable sealant that gives a peelable seal to itself, polypropylene, and polyethylene. It is formulated for low COF and has excellent hot tack strength, which give it improved processability on packaging equipment.

Main Characteristics:

- Pellets
- Blown and cast film
- Peelable sealant to itself, PP, and PE
- High hot tack strength
- Formulated for low COF

Complies with:

- EU, No 10/2011
- U.S. FDA
- Consult the regulations for complete details.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Additive	• Antiblock: 9000 ppm	• Slip: 4000 ppm
Agency Ratings	• EU No 10/2011	• FDA Unspecified Rating
Forms	• Pellets	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.897		ASTM D792
Melt Mass-Flow Rate			ASTM D1238
190°C/2.16 kg	3.8	g/10 min	
230°C/2.16 kg	8.5	g/10 min	
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	2	mil	
Seal Initiation Temperature [2] (2.0 mil, Blown Film)	203	°F	Internal Method
Peelable Range [3]	203 to 266	°F	Internal Method

Processing Information

Extrusion Notes

- Film thickness: 50 microns (2 mil)
- Coextruded blown film:
  - A / B Coex, 80% / 20% layer ratio
  - A = HDPE (40 µm / 1.6 mil)
  - B = SEALUTION 140 (10 µm / 0.4 mil)
- Fabrication Conditions:
  - Die Gap: 1.2 mm
  - Melt Temperature: 180 - 230°C
  - Blow-Up Ratio: 2.5

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Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Temperatures at which 1 lb/in. (2.5 N/15 mm) heat seal strength is achieved.
Heat Seal Strengths, Topwave HT Tester 0.5 s dwell, 40 psi (2.76 bar) pressure, pull speed 10 in/sec (254 mm/sec).

[3] Peelable range of 1-2 lb/in (2.5 - 5 N/15 mm) for this particular structure.
Heat Seal Strengths, Topwave HT Tester 0.5 s dwell, 40 psi (2.76 bar) pressure, pull speed 10 in./min (254 mm/sec).