

SEALUTION™ 140 Peel Polymer

Peel Polymer
The Dow Chemical Company

Message:

SEALUTION™140 easy-to-peel polymer is a peelable heat seal material that can form a peelable heat seal with the same material, polypropylene and polyethylene. Its formula has the characteristics of low COF and excellent thermal adhesive strength, which is helpful to improve the packaging processing performance.

key characteristics:

- small granular
- blow molding and casting film
- can form peelable heat seal with the same material, polypropylene and polyethylene
- high thermal adhesive strength
- low COF formula
- slip agent: 6000 ppm
- opening agent: 9000 ppm
- processing aid: yes
- meets the following requirements:

- EU, No 10/2011
- U.S. Food and Drug Administration
- Please check the specific regulations for details

General Information			
Additive	Anti-caking agent (9000 ppm)		
	Sliding agent (4000 ppm)		
Agency Ratings	FDA not rated		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.895	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	3.8	g/10 min	ASTM D1238
230°C/2.16 kg	8.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Seal Initiation Temperature ¹ (51 µm, Blown Film)	95.0	°C	Internal method
Peelable range ²	95 - 130	°C	Internal method
Extrusion instructions			

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

NOTE

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|----|---|
| 1. | Achieve a temperature of 1 psig (2.5 N/15mm) heat seal strength. Heat seal strength, Topwave HT tester 0.5 S holding pressure, 40 psi pressure, pulling speed 10 inches/min (254 mm/s). |
| 2. | 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). |

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