PRIMEVA® P1807F

REPSOL - Ethylene Vinyl Acetate Copolymer

Sunday, November 3, 2019

General Information

Product Description

EVA copolymer REPSOL PRIMEVA® P1807F is suitable for film extrusion applications. This material combines easy processability with excellent mechanical and optical properties. It contains antioxidant additives.

Applications:

- Film extrusion:
  - Co-extrusion
  - Applications in which low sealing temperature is required
  - Silage stretch film
  - Stretch hood

Recommended melt temperature below 200°C to avoid the decomposition of the polymer. Processing conditions should be optimised for each production line.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Antioxidant		
Features	• Antioxidant • Copolymer	• Food Contact Acceptable • Good Optical Properties	• Good Processability
Uses	• Film		
Agency Ratings	• EU Food Contact, Unspecified Rating		
Processing Method	• Coextrusion	• Film Extrusion	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.941	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ISO 1133
Vinyl Acetate Content	17.5	wt%	Internal Method
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested [2]	4	mil	
Tensile Stress			ISO 527-3
MD : Break	4500	psi	
TD : Break	4640	psi	
Tensile Elongation			ISO 527-3
MD : Break, 3.9 mil	800	%	
TD : Break, 3.9 mil	900	%	
Dart Drop Impact [3] (3.9 mil)	> 1400	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 3.9 mil	0.54	lbf	
TD : 3.9 mil	0.76	lbf	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	144	°F	ISO 306/A
Melting Temperature	189	°F	Internal Method

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Optical	Nominal Value	Unit	Test Method
Haze	4.00	%	ASTM D1003

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	392	°F

Notes

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

[2] blow up ratio 2. 5:1, frost line height 50 cm

[3] F50