PRIMEVA® P1820F

REPSOL - Ethylene Vinyl Acetate Copolymer

Sunday, November 3, 2019

General Information

Product Description

EVA copolymer REPSOL PRIMEVA® P182OF is suitable for film extrusion and extrusion coating. This material combines easy processability with excellent mechanical and optical properties. It contains antioxidant additives.

Applications:

- Film extrusion.
- Extrusion coating.

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	• Coating Applications	• Film	
Agency Ratings	• EU Food Contact, Unspecified Rating		
Processing Method	• Extrusion Coating	• Film Extrusion	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.937	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (ESCR) (F50)	> 300	hr	ASTM D1693
Vinyl Acetate Content	18.0	wt%	Internal Method
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested [2]	2	mil	
Tensile Stress			ISO 527-3
MD : Break, 2.0 mil	3770	psi	
TD : Break, 2.0 mil	3190	psi	
Tensile Elongation			ISO 527-3
MD : Break, 2.0 mil	320	%	
TD : Break, 2.0 mil	640	%	
Dart Drop Impact [3] (2.0 mil)	600	g	ISO 7765-1
Elmendorf Tear Strength			ISO 6383-2
MD : 2.0 mil	0.45	lbf	
TD : 2.0 mil	62	lbf	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore A	90		
Shore D	38		

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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	147	°F	ISO 306/A
Melting Temperature	189	°F	Internal Method
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 2.25:1, frost line height 40 cm

[3] F50