

PRIMEVA® P1807C

REPSOL - Ethylene Vinyl Acetate Copolymer

Sunday, November 3, 2019

General Information

Product Description

EVA copolymer REPSOL PRIMEVA® P1807C is suitable for extrusion applications (sheets, profiles, pipes). This material combines easy processability with excellent mechanical properties. It contains antioxidant additives.

Applications:

- Extrusion:
 - · Sheets
 - · Pipes
 - · Profiles

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	EuropeLatin America	North America	
Additive	 Antioxidant 			
Features	AntioxidantCopolymer			
Uses	• Piping	 Profiles 	• Sheet	
Agency Ratings	EU Food Contact, Unspecified Rating			
Processing Method	 Extrusion 			

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 18.0 wt% Internal Method Film Thickness - Tested 2 4 mil Test Method Film Thickness - Tested 2 4 mil ISO 527-3 MD : Break 4500 psi Psi TD : Break 4640 psi ISO 527-3 MD : Break, 3.9 mil 800 % * Dart Drop Impact 3 (3.9 mil) 900 % ISO 527-3 Elmendorf Tear Strength 1SO 6383-2 ISO 6383-2 MD : 3.9 mil 0.54 lbf ISO 527-3 Tor : 3.9 mil 0.76 lbf Test Method Vicat Softening Temperature Nominal Value Unit Test Method	ASTM	1 & ISO Properties 1	-	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) 0.70 g/10 min ISO 1133 Vinyl Acetate Content 18.0 wt% Internal Method Film Thickness - Tested 2 Nominal Value Unit Test Method Film Thickness - Tested 2 4 mil Tensile Stress ISO 527-3 ISO 527-3 MD : Break 4500 psi TD : Break 4640 psi Tensile Elongation ISO 527-3 ISO 527-3 MD : Break, 3.9 mil 800 % TD : Break, 3.9 mil 900 % Elmendorf Tear Strength 150 6383-2 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	Physical	Nominal Value	Unit	Test Method
Vinyl Acetate Content 18.0 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 6383-2 Elmendorf Tear Strength 0.54 lbf ISO 6383-2 MD : 3.9 mil 0.76 lbf The man accordance of the method Thermal Nominal Value Unit Test Method Vicat Softening Temperature 144 °F ISO 306/A	Density (73°F)	0.941	g/cm³	ISO 1183
Films Nominal Value Unit Test Method Film Thickness - Tested 2 4 mil Film Thickness ISO 527-3 Tensile Stress ISO 527-3 ISO 527-3 MD : 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 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	Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ISO 1133
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 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	Vinyl Acetate Content	18.0	wt%	Internal Method
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 ISO 6383-2 TD : 3.9 mil 0.76 lbf ISO 306/A Vicat Softening Temperature 144 %F ISO 306/A	Films	Nominal Value	Unit	Test Method
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 ISO 6383-2 TD : 3.9 mil 0.76 lbf Thermal Nominal Value Unit Test Method Vicat Softening Temperature 144 °F ISO 306/A	Film Thickness - Tested ²	4	mil	
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	Tensile Stress			ISO 527-3
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 Vicat Softening Temperature Nominal Value Unit Test Method Vicat Softening Temperature 144 °F ISO 306/A	MD : Break	4500	psi	
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	TD : Break	4640	psi	
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	Tensile Elongation			ISO 527-3
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	MD : Break, 3.9 mil	800	%	
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	TD : Break, 3.9 mil	900	%	
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	Dart Drop Impact ³ (3.9 mil)	> 1400	g	ISO 7765-1
TD : 3.9 mil 0.76 lbf Fhermal Nominal Value Unit Test Method Vicat Softening Temperature 144 °F ISO 306/A	Elmendorf Tear Strength			ISO 6383-2
ThermalNominal ValueUnitTest MethodVicat Softening Temperature144 °FISO 306/A	MD : 3.9 mil	0.54	lbf	
Vicat Softening Temperature 144 °F ISO 306/A	TD : 3.9 mil	0.76	lbf	
V 1	Thermal	Nominal Value	Unit	Test Method
Melting Temperature 189 °F Internal Method	Vicat Softening Temperature	144	°F	ISO 306/A
	Melting Temperature	189	°F	Internal Method

our control, and we cannot and will not take responsibility for the information or content.



PRIMEVA® P1807C

REPSOL - Ethylene Vinyl Acetate Copolymer

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