



PRIMEVA® P1820C

REPSOL - Ethylene Vinyl Acetate Copolymer

Sunday, November 3, 2019

General Information

Product Description

EVA copolymer REPSOL PRIMEVA® P1820C is suitable for extrusion and injection moulding applications. This material combines flexibility and toughness. It contains antioxidant additives.

Applications:

- Extrusion.
- Blow moulding.
- Injection moulding.
- Microcellular foams.
- Can be used to produce halogen-free-flame-retardant (HFFR) cables compounds.

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 Flexibility	• Good Toughness
Uses	• Compounding	• Foam	
Agency Ratings	• EU Food Contact, Unspecified Rating		
Processing Method	• Blow Molding • Compounding	• Extrusion • Foam Extrusion	• Injection Molding

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	0.937	g/cm ³	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
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	2470	psi	ISO 527-2
Tensile Strain (Break)	750	%	ISO 527-2
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A	90		
Shore D	38		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	147	°F	ISO 306/A
Melting Temperature	189	°F	Internal Method

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	392	°F

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Extrusion	Nominal Value	Unit
Melt Temperature	392	°F

Notes

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