

Sasol Polymers PP ESV200

Polypropylene Random Copolymer

Sasol Polymers

Message:

- Features
 - High flow
 - Narrow molecular weight distribution
 - Specifically designed for extrusion coating of woven PP cloth
 - Excellent processing stability, reduced neck-in and superior adhesion
 - Wider processing window during secondary conversion
- Applications
 - Extrusion
 - Coating of woven cloth block-bottom bags for products such as fertilizer, cement and maize

General Information			
Additive	Unspecified Additive		
Features	Food Contact Acceptable		
	Good Adhesion		
	Good Processing Stability		
	High Flow		
	Narrow Molecular Weight Distribution		
	Random Copolymer		
Uses	Wovens Coatings		
Agency Ratings	EC 1935/2004		
	FDA 21 CFR 177.1520(a)(3)(i)(c)(1)		
	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Pellets		
Processing Method	Extrusion Coating		
Physical	Nominal Value	Unit	Test Method
Density	0.904	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	28	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	44.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	900	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	24.0	MPa	ISO 527-2/1A/50
Tensile Strain			ISO 527-2/1A/50
Yield	11	%	
Break	> 50	%	
Flexural Modulus	850	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	70.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	132	°C	ISO 306/A120
--	70.0	°C	ISO 306/B120
Melting Temperature	146	°C	ISO 11357-3
Extrusion	Nominal Value	Unit	
Hopper Temperature	40.0 to 60.0	°C	
Cylinder Zone 1 Temp.	220 to 300	°C	
Cylinder Zone 2 Temp.	260 to 300	°C	
Cylinder Zone 3 Temp.	260 to 300	°C	
Cylinder Zone 4 Temp.	260 to 300	°C	
Cylinder Zone 5 Temp.	260 to 300	°C	
Melt Temperature	240 to 300	°C	
Die Temperature	260 to 300	°C	

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