ELITE™ 5401GS

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

5401ELITE™5401GS reinforced polyethylene resin is made of Dow INSITE™The copolymer produced by technology has excellent impact resistance, excellent tear resistance, tensile resistance and optical properties, and can be used to manufacture high-strength blown films. In addition, ELITE™5401GS reinforced polyethylene resin also integrates unique properties such as low initial sealing temperature and high modulus, as well as less blocking, and can be used for automatic packaging. ELITE™5401GS reinforced polyethylene resin contains anti-skid and anti-blocking additives. Purpose:

Food and special packaging films. thinned film with very high toughness. Compliance: EU No 10/2011 Regulation FDA FCN 424 View regulations for complete information

General Information				
Additive	Anti-caking agent (2500 ppm)			
	Sliding agent (1000 ppm)			
Agency Ratings	FDA FCN 424			
	Europe No 10/2011			
Forms	Particle			
Processing Method	Film extrusion			
	Blow film			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.917	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (190°C/2.16				
kg)	1.0	g/10 min	ISO 1133	
Films	Nominal Value	Unit	Test Method	
Film Thickness - Tested	51	μm		
Film Puncture Energy ¹ (51 µm)	6.00	J	ASTM D5748	
Film Puncture Force 2 (51 μ m)	80.0	Ν	ASTM D5748	
Tensile Modulus ³			ISO 527-3	
2% secant, MD: 51 µm	181	MPa	ISO 527-3	
2% secant, TD: 51 µm	204	MPa	ISO 527-3	
Tensile Stress ⁴			ISO 527-3	
MD: Yield, 51 µm	8.00	MPa	ISO 527-3	
TD: Yield, 51 µm	9.00	MPa	ISO 527-3	
MD: Fracture, 51 µm	38.0	MPa	ISO 527-3	
TD: Fracture, 51 μm	37.0	MPa	ISO 527-3	
Tensile Elongation ⁵			ISO 527-3	

MD: Fracture, 51 µm	570	%	ISO 527-3
TD: Fracture, 51 μm	610	%	ISO 527-3
Dart Drop Impact ⁶ (51 µm)	> 850	g	ISO 7765-1/B
Elmendorf Tear Strength ⁷			ASTM D1922
MD : 51 µm	780	g	ASTM D1922
TD : 51 μm	980	g	ASTM D1922
Seal Initiation Temperature 8 (51 μ m)	95.0	°C	Internal method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525
Melting Temperature	123	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss ⁹ (45°, 51.0 μm)	64		ASTM D2457
Haze ¹⁰ (51.0 μm)	13	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 250	°C	
Extrusion instructions			
模具间隙:0.8-2.8 mm. 熔体温度:190-250 ℃. 放大比:1.5 比 3.5.			
NOTE			
1.	Blown film extruded at 232°C, 2.5:1 BUR, 1.8mm mold gap.		
2.	Blown film extruded at 232°C, 2.5:1 BUR, 1.8mm mold gap.		
3.	Blown film extruded at 232°C, 2.5:1 BUR, 1.8mm mold gap.		
4.	Blown film extruded at 232°C, 2.5:1 BUR, 1.8mm mold gap.		
5.	Blown film extruded at 232°C, 2.5:1 BUR, 1.8mm mold gap.		
6.	Blown film extruded at 232°C, 2.5:1 BUR, 1.8mm mold gap.		
7.	Blown film extruded at 232°C, 2.5:1 BUR, 1.8mm mold gap.		
8.	Blown film extruded at 232°C, 2.5:1 BUR, 1.8mm mold gap. Achieve a temperature of 5.25 N/15mm heat sealing strength.		
9.	Blown film extruded at 232°C, 2.5:1 BUR, 1.8mm mold gap.		
10.	Blown film extruded at 232°C, 2.5:1 BUR, 1.8mm mold gap.		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

