ELITE™ 5811

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

ELITE 5811 is an extrusion coating resin.
Main Characteristics:
Suitable for processing on conventional hardware
Extrusion coating resin
Low neck-in
Good heat resistance
Enhanced water vapor barrier
Extra toughness
High performance sealant
Complies with:
EU, No 10/2011
U.S. FDA 21 CFR 177.1520
Consult the regulations for complete details.

General Information			
Agency Ratings	EU No 10/2011 FDA 21 CFR 177.1520		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.919	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	21.2	MPa	ISO 527-2
Tensile Strain (Break)	720	%	ISO 527-2
Flexural Modulus	307	MPa	ISO 178
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1]			ISO 527-3
MD : Yield	19.3	MPa	
TD : Yield	16.2	MPa	
Tensile Elongation [2]			ISO 527-3
MD : Break	540	%	
TD : Break	610	%	
Elmendorf Tear Strength [3]			ISO 6383-2
MD	2.4	N	
TD	3.8	N	
Seal Initiation Temperature [4]	98.0	°C	Internal Method
Water Vapor Transmission [5]	18	g/m²/24 hr	ASTM E96
Thermal	**Nominal Value**	**Unit**	**Test Method**

Vicat Softening Temperature	102	°C	ASTM D1525
Melting Temperature (DSC)	124	°C	Internal Method

Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	260 to 320	°C	
Draw Down - From 15g/m² at 100 m/min [6]	250	m/min	Internal Method
Minimum Coating Weight - Calculated [7]	6.0	g/m²	Internal Method
Neck-in - 25g/m² at 100 m/min [8] (290°C)	84.0	mm	Internal Method

NOTE	
1.	25g/m² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.
2.	25g/m² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.
3.	25g/m² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.
4.	- 25g/m² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.- Temperatures at which 3 N/15mm heat seal strength is achieved.- Heat Seal Strengths measured at 0.5sec sealing time, 0.5N/mm² pressure, 5mm seal bar, cross head speed (150 mm/sec).- Kraft paper substrate
5.	25g/m² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.
6.	25g/m² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.
7.	25g/m² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.
8.	25g/m² coating onto paper substrate and/or coating web at 250 mm air gap and -15 nip off-set.

Recommended distributors for this material

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