SABIC® LLDPE 6821WE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 6821WE is a hexene-linear low density polyethylene. Films made from this resin exhibit outstanding tensile strength, stiffness, dart drop, impact strength, tear strength and hottack properties. This material contains a high amount of anti block and slip erucamide. The suffix E denotes European origin.

General Information			
Additive	High smoothness (150 ppm) High caking resistance (350 ppm) Antioxidation		
Features	Ultra-high impact resistance Super rigidity Low density Good tear strength		
Uses	Films Laminate Stretch winding Food packaging Heavy packing bag		
Forms	Films		
Processing Method	Blow molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.921	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ISO 1133
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
secant modulus			ASTM D882
MD : 50 µm	220	MPa	ASTM D882
TD : 50 µm	250	MPa	ASTM D882
Tensile Stress			ISO 527-3
MD: Yield, 50 µm	12.5	MPa	ISO 527-3
TD: Yield, 50 µm	14.0	MPa	ISO 527-3
MD : 50 µm	35.0	MPa	ISO 527-3
TD : 50 µm	25.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3

MD: Break, 50 µm	520	%	ISO 527-3
TD: Break, 50 µm	650	%	ISO 527-3
Total Energy Impact (50 µm)	1.50	J	ASTM D4272
Elmendorf Tear Strength			ISO 6383-2
MD : 50 µm	3.5	N	ISO 6383-2
TD : 50 µm	18	N	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	111	°C	ISO 306/A
Melting Temperature	125	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°)	45		ASTM D2457
Haze	20	%	ASTM D1003

Additional Information

The value Haze, ASTM D1003, was tested in a HazemeterClarity, SABIC Method: 20 mVPuncture Resistance, SABIC Method: 450 J/mBlocking, SABIC Method: 10 gRe-blocking, SABIC Method: <10 gKiefel IBC: 140 kg/hDie Size: 200 mmDie Gap: 2.7 mm

Recommended distributors for this material

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WECHAT