## SABIC® LLDPE 726QE

## Linear Low Density Polyethylene

## Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC® LLDPE 726QE is a butene linear low density polyethylene resin. This grade is designed to give blown films a relatively high stiffness for good machinability and a good overall balance of other performance properties, such as puncture resistance, impact strength and heat sealability. This material contains anti block, slip erucamide and processing aid.

Application

General Information

Typical applications for SABIC® LLDPE 726QE are shipping sacks, produce bags, can liners and carrier bags. SABIC® LLDPE 726QE has very good optical properties when blended with a LDPE (15-85%).

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

Additive	Processing aid			
	Erucamide Lubricating Additive (1250 ppm)			
	Anti-caking agent (750 ppm)			
	Antioxidation			
Features	Low density			
	Butene comonomer			
	Rigidity, high			
	smoothness			
	Perforation resistance			
	Anti-caking property			
	Antioxidation			
	Impact resistance, good			
	Machinable			
	Good heat sealability			
Uses	Blown Film			
	Lining			
	Bags			
Processing Method	Blow film			
Physical	Nominal Value	Unit	Test Method	
Density	0.926	g/cm³	ISO 1183/A	
Melt Mass-Flow Rate (MFR) (190°C/2.16				
kg)	0.70	g/10 min	ISO 1133	
Mechanical	Nominal Value	Unit	Test Method	
Coefficient of Friction (Blown Film)	0.10		ISO 8295	
Films	Nominal Value	Unit	Test Method	
Film Thickness - Tested	50	μm		

Tensile Modulus			ISO 527-3	
MD: 50 µm, blown film	220	MPa	ISO 527-3	
TD: 50 µm, blown film	240	MPa	ISO 527-3	
Tensile Stress			ISO 527-3	
MD: Yield, 50 µm, blown film	13.0	MPa	ISO 527-3	
TD: Yield, 50 μm, blown film	14.0	MPa	ISO 527-3	
MD: Broken, 50 µm, blown film	34.0	MPa	ISO 527-3	
TD: Broken, 50 μm, blown film	27.0	MPa	ISO 527-3	
Tensile Elongation			ISO 527-3	
MD: Broken, 50 µm, blown film	600	%	ISO 527-3	
TD: Broken, 50 μm, blown film	700	%	ISO 527-3	
Impact	Nominal Value	Unit	Test Method	
Impact Strength - Blown Film (50.0 µm)	230	J/cm	ASTM D4272	
Blocking - Blown Film (50.0 µm)	10	g	Internal method	
Puncture Resistance - Blown Film (50.0 µm)	440	J/m	Internal method	
Re-blocking - Blown Film (50.0 µm)		g	Internal method	
Tear Strength <sup>1</sup>			ISO 6383-2	
MD : 50.0 μm	23.0	kN/m	ISO 6383-2	
TD : 50.0 μm	130.0	kN/m	ISO 6383-2	
Thermal	Nominal Value	Unit	Test Method	
Vicat Softening Temperature	110	°C	ISO 306/A	
Melting Temperature (DSC)	124	°C	Internal method	
Optical	Nominal Value	Unit	Test Method	
Gloss (45°, 50.0 µm, Blown Film)	65		ASTM D2457	
Haze (50.0 µm, Blown Film)	14	%	ASTM D1003	
Additional Information	Nominal Value	Unit	Test Method	
Film of 50 μm and BUR=2 has been produced on Kiefel IBC with 130 kg/h. Die size 200 mm, die gap 0.8 mm.				
NOTE				

1.

Blown Film

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