SABIC® LLDPE 726QJ

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 726QJ is a butene linear low density polyethylene resin. This grade is typically 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
Typical applications for SABIC® LLDPE 726QJ are shipping sacks, produce bags, can liners and carrier bags. SABIC® LLDPE 726QJ has good optical properties when blended with a LDPE (15-85%).
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Additive	Processing aid
	Erucamide Lubricating Additive
	Anti-caking agent
	Antioxidation
Features	Low density
	Butene comonomer
	Rigidity, high
	smoothness
	Perforation resistance
	Anti-caking property
	Antioxidation
	Impact resistance, good
	Machinable
	Good heat sealability
	Linear polymer structure
Uses	Blown Film
	Films
	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 [1]			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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