SABIC® LDPE 2100TN21

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2100TN21 is a grade with excellent toughness and tear strength and outstanding shrink properties. The material contains anti block and slip erucamide, has a very low energy consumption during processing and has good draw down properties.
SABIC® LDPE 2100TN21 is suitable for application in shrinkhoods, industrial sacks, heavy duty carrier bags and liners.
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Additive	Erucamide Lubricating Additive (300 ppm) Anti-caking agent (650 ppm)		
Features	smoothness Anti-caking property Good stripping Good tear strength Good toughness		
Uses	Films Lining Heavy packing bag		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.921	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.33	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (Blown Film)	0.20		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 527-3
MD: 50 µm, blown film	190	MPa	ISO 527-3
TD: 50 µm, blown film	190	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm, blown film	12.0	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
MD: 50 µm, blown film	27.0	MPa	ISO 527-3
TD: 50 µm, blown film	22.0	MPa	ISO 527-3

Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	> 200	%	ISO 527-3
TD: Broken, 50 µm, blown film	> 500	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method
Impact Strength (50.0 µm) [1]	300	J/cm	ASTM D4272
Blocking (50.0 µm) [2]	10	g	Internal method
Re-blocking (50.0 µm) [3]	10	g	Internal method
Tear Strength [4]			ISO 6383-2
MD : 50.0 µm	45.0	kN/m	ISO 6383-2
TD : 50.0 µm	25.0	kN/m	ISO 6383-2
Optical	Nominal Value	Unit	Test Method
Haze (50.0 µm, Blown Film)	15	%	ASTM D1003A
Additional Information	Nominal Value	Unit	Test Method
Films have been produced on Kiefel IBC film blown line at 200 kg/h with a die of 200 mm and a die gap of 0.8 mm.			
NOTE			
1.	Blown Film		
2.	Blown Film		
3.	Blown Film		
4.	Blown Film		

Recommended distributors for this material

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