

# SABIC® LDPE nExCoat 5

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

## Message:

SABIC ® LDPE nExCoat 5 is a revolutionary tubular grade without additives, which is specially developed for the extrusion coating market. Its special molecular structure provides a unique combination of properties: processing on very high line speeds, excellent adhesion on different substrates (both at lower extrusion temperatures) and excellent sealing properties, very low gel count, low MFR drop during processing and a lower extruder motor load. SABIC ® LDPE nExCoat 5 is suitable for all typical extrusion coating applications, such as liquid packaging, imaging, food packaging, release liners and building & construction and can be used for coating on paper, board aluminium foil or other substrates (especially temperature sensitive). Moreover, it can be employed in lamination applications, due to its excellent adhesion properties.

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

General Information			
Features	Low speed solidification crystal point		
	Good adhesion		
Uses	Laminate		
	Coating application		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 2.00 mm, Compression Molded)	12.0	MPa	ISO 527-2/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	600	%	ISO 527-2/50
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD: Yield, 25 µm	7.50	MPa	ISO 527-3
TD: Yield, 25 µm	7.50	MPa	ISO 527-3
MD: Break, 25 µm	13.0	MPa	ISO 527-3
TD: Break, 25 µm	13.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 25 µm	400	%	ISO 527-3
TD: Break, 25 µm	550	%	ISO 527-3
Elmendorf Tear Strength			ISO 6383-2
MD : 25 µm	45000	N	ISO 6383-2
TD : 25 µm	45000	N	ISO 6383-2
Oxygen Permeability - 0% RH per 24h (23°C)	0.80	cm <sup>3</sup> /cm <sup>2</sup> /bar	ISO 15105-2

Water Vapor Permeability - 90% RH per 24h (38°C)	20.0	g/m <sup>2</sup>	ISO 15106-3
Enthalpy Change	100	J/g	DIN 53765
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	88.0	°C	ISO 306
Melting Temperature (DSC)	107	°C	DIN 53765

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#### Recommended distributors for this material

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