SABIC® LDPE 2005EC

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2005EC is the first commercially proven tubular LDPE grade for extrusion coating. The product gives a good combination of processing and end-performance properties. SABIC® LDPE 2005EC can be used on low and (very) high line speed extrusion coating and lamination processes. Due to its excellent draw down performance and good adhesion, very thin coating layers can be applied on the substrate.
Application
SABIC® LDPE 2005EC is typically used in extrusion coating and lamination applications, such as liquid packaging, food packaging and building & construction. Typical substrates for coating or lamination are paper, board, aluminum, PET or PA.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Features	Low density Good stripping Good adhesion
Uses	Packaging Laminate Building materials Architectural application field Food packaging
Processing Method	Lamination method Extrusion coating

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm³	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**
Film Thickness - Tested	25	µm	
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
Oxygen Permeability [1] (23°C, 25 µm)	0.800	$cm^3/m^2/24$ hr	ISO 15106-3
Water Vapor Transmission Rate (38°C, 90% RH, 25 µm)	20	$g/m^2/24$ hr	ISO 15106-3
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	88.0	°C	ISO 306
Melting Temperature (DSC)	107	°C	DIN 53765
Enthalpy Change	100	J/g	DIN 53765
Tear Strength			ISO 6383-2
MD : 25.0 µm	45.0	kN/m	ISO 6383-2
TD : 25.0 µm	45.0	kN/m	ISO 6383-2
Neck-in [2]	140.0	mm	Internal method
Minimum coating weight [3]	1.4	g/m^2	Internal method
NOTE			
1.	0% RH		
2.	Measured on pilot line at 200 m/min, 300°C, 10 g/m^2, airgap 300 mm		
3.	Measured on pilot line at 400 m/min, 300°C, airgap 300 mm		

Recommended distributors for this material

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