SABIC® LDPE 2200H2

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2200H2 is a grade with a low melt flow rate and contains a low level of anti block and a medium level of slip agent (E=erucamide). This grade shows a good draw down ability and good optical properties.
Application
SABIC® LDPE 2200TC12 is typically used for thin film applications requiring high strength and thin shrink film with high shrink forces and wrapping strength. Typical applications are lamination and coextruded films.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Additive	Low caking resistance (330 ppm) Erucamide Lubricating Additive (600 ppm)
Features	Low caking resistance Low density High strength Optical Good stripping Low liquidity Moderate smoothness
Uses	Blown Film Laminate Shrinkable film
Processing Method	Lamination method Blow film Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.922	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	11.0	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	27.0	MPa	ISO 527-3
TD: Broken, 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 - Blown Film (50.0 µm)	300	J/cm	ASTM D4272
Blocking - Blown Film (50.0 µm)	20	g	Internal method
Re-blocking - Blown Film (50.0 µm)		g	Internal method
Tear Strength [1]			ISO 6383-2
MD : 50.0 µm	35.0	kN/m	ISO 6383-2
TD : 50.0 µm	40.0	kN/m	ISO 6383-2
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	57		ASTM D2457
Haze (50.0 µm, Blown Film)	9.0	%	ASTM D1003A
Additional Information	Nominal Value	Unit	Test Method
Film properties have been measured at film of 50 µm with a BUR of 3.The film has been produced on Kiefel IBC blown film line with 200 kg/h. Die size 200 mm, die gap 0.8 mm.			
NOTE			
1.	Blown Film		

Recommended distributors for this material

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