

Technical Data Sheet

LFI 2185A

Low Density Polyethylene

LFI2185A is a low density polyethylene, with good toughness and good biaxial shrink properties. This product contains a high antiblock level and a medium level of slip agent (Erucamide). It has low energy consumption during processing, good melt strength and good drawdown ability. It typically exhibits low friction and low blocking. LFI2185A has been manufactured under SABTEC licensed technology.

Applications:

Blown film extrusion, thin packaging film and bag, thin shrink film

Arena Petro Gas

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Typical Properties	Typical Value ¹	Units	Test Method
Physical			
Melt Flow Index(190°C/2.16 kg)	0.85	dg/ min	ISO 1133
Density ²	921	kg/m ³	ISO 1183(A)
Mechanical³			
Impact Strength	30	KJ/m	ASTM D4272
Tear Strength(TD)	30	KN/m	ISO 6383-2
Tear Strength(MD)	40	KN/m	ISO 6383-2
Yield Stress(TD)	11	MPa	ISO 527-1,3
Yield Stress(MD)	12	MPa	ISO 527-1,3
Tensile Stress at Break(TD)	21	MPa	ISO 527-1,3
Tensile Stress at Break(MD)	24	MPa	ISO 527-1,3
Strain at Break (TD)	>500	%	ISO 527-1,3
Strain at Break (MD)	>200	%	ISO 527-1,3
Modulus of Elasticity (TD)	170	MPa	ISO 527-1,3
Modulus of Elasticity (MD)	160	MPa	ISO 527-1,3
Coefficient of Friction	0.1	--	ASTM D1894
Blocking	10	g	ASTM D3354
Re-blocking	30	g	SABTEC method
Optical			
Haze	11	%	ASTM D1003 A
Gloss(45°)	57	GU	ASTM D2457
Clarity	35	mV	SABTEC method
Recommended Process Conditions⁴			
Extruder Temperature profile: 175-190 °C		Blow up ratio: 2-4	
Film thickness: 45-100 µm			

1. Typical values: these are not to be construed as specifications.
2. The density parameter was determined on compression-molded specimens, which were prepared in accordance with procedure C of ASTM D4703, Annex A1.
3. Properties are based on 25 µm blown film produced at a melt temperature of 190°C and 3 BUR using 100% LFI2185A.
4. Please note that, these processing conditions are recommended by producer only for 100% LFI2185A resin (not in the case of blending with any other compatible material), but because of the many particular factors which are outside our knowledge and control, and may affect the use of product, no warranty is given.