PETRODUCT
Petrochemical trading Co.

Product Data Sheet

LFI 2125A

Low Density Polyethylene

Product Description

LFI 2125A is a low density polyethylene, with a medium level of anti-block and slip agent (Erucamide) additives. This grade offers good optical properties, low energy consumption, adequate COF level and excellent draw down ability during processing. LFI 2125A has been manufactured under SABTEC licensed technology.

General Information

Status	Commercial: Active
Application	Blown film extrusion- Packaging film for food and goods- General lamination films
Form(s)	Pellet
Attribute	Good toughness- High speed converting without sticking- Good optical properties- Suitable when ultimate down gauging is required.
Additives	Antioxidant: Yes Antiblock : Yes Slip Agent : Yes

Typical Properties	Typical Value [1]	Unit	Test Method
Physical			
MFI (190 °C /2.16 Kg)	2.5	dg/min	ISO 1133
Density [2]	921	kg/m^3	ISO 1183
Mechanical [3]			
Impact Strength	23	kJ/m	ASTM D4272
Tear Strength (TD)	25	kN/m	ISO 6383-2
Tear Strength (MD)	70	kN/m	ISO 6383-2
Yield Stress (TD)	11	MPa	ISO 527-1,3
Yield Stress (MD)	13	MPa	ISO 527-1,3
Tensile Stress at Break (TD)	19	MPa	ISO 527-1,3
Tensile Stress at Break (MD)	30	MPa	ISO 527-1,3
Strain at Break (TD)	> 500	%	ISO 527-1,3
Strain at Break (MD)	> 100	%	ISO 527-1,3
Modulus of Elasticity (TD)	180	MPa	ISO 527-1,3
Modulus of Elasticity (MD)	190	MPa	ISO 527-1,3

Coefficient of Friction	0.2	-	ASTM D1894
Blocking	< 5	g	ASTM D3354
Re-blocking	0	g	SABTEC method
Optical [3]			
Haze	9	%	ASTM D1003 A
Gloss (45°)	60	%	ASTM D2457
Clarity	30	%	SABTEC method
Recommended Process Conditions [5]			
Extruder temperature profile: 170 -190°C	Blow up ratio: 2-3		
Film thickness: 20-50 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 165°C and 3 BUR using 100% LFI2125A
4. Please note that, these processing conditions are recommended by producer only for 100% LFI2125A 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 for the foregoing data.