



LFI 2575

Low Density Polyethylene

Product Description

LFI 2575 is a high molecular weight, low density polyethylene, with good toughness and good biaxial shrink properties. This product is suitable for producing medium-duty films and containers. LFI 2575 contains no slip and anti-block additives. This grade offers good melt strength and good draw down ability during processing. LFI 2575 has been manufactured under SABTEC licensed technology.

General Information

Status	Commercial: Deactive		
Application	Blown film extrusion- Surface protection films- Lamination films.		
Form(s)	Pellet		
Attribute	Good toughness- Low blocking behavior.		
Additives	Antioxidant: Yes	Antiblock: No	Slip Agent: No

Typical Properties	Typical Value ¹	Unit	Test Method
Physical			
MFI (190 °C /2.16 Kg)	0.75	dg/min	ISO 1133
Density ²	925	kg/m ³	ISO 1183 (A)
Mechanical ³			
Impact Strength	20	kJ/m	ASTM D 4272
Tear Strength (TD)	30	kN/m	ISO 6383-2
Tear Strength (MD)	35	kN/m	ISO 6383-2
Yield Stress (TD)	12	MPa	ISO 527-1,3
Yield Stress (MD)	12	MPa	ISO 527-1,3
Tensile Stress at Break (TD)	25	MPa	ISO 527-1,3
Tensile Stress at Break (MD)	28	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)	200	MPa	ISO 527-1,3
Modulus of Elasticity (MD)	190	MPa	ISO 527-1,3
Coefficient of Friction	0.7		ASTM D1894
Blocking	< 5	g	ASTM D3354
Re-blocking	20	g	SABTEC method
Optical ³			
Haze	34	%	ASTM D 1003 A
Gloss (45°)	50	GU	ASTM D2457

Recommended Process Conditions ⁴

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 45 µm blown film produced at a melt temperature of 165°C and 3 BUR using 100% LFI 2575.
4. Please note that these processing conditions are recommended by producer only for 100% LFI2575 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 a product, no warranty is given.

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