

## Technical Data Sheet

### LFI 2575

#### Low Density Polyethylene

LFI2575 is a low density polyethylene, with good toughness and good biaxial shrink properties. This product is suitable for producing medium-duty films and containers and contains no-slip and anti-block additives that have low energy consumption during processing, good melt strength and a good drawdown ability. LFI2575 has been manufactured under SABTEC licensed technology.

#### Applications:

Blown film extrusion, surface protection films, lamination films

Arena Petro Gas

آرنا پتروگاز

**Technical Data Sheet**

Typical Properties	Typical Value <sup>1</sup>	Units	Test Method
<b>Physical</b>			
Melt Flow Index(190°C/2.16 kg)	0.75	dg/ min	ISO 1133
Density <sup>2</sup>	925	kg/m <sup>3</sup>	ISO 1183(A)
<b>Mechanical<sup>3</sup></b>			
Impact Strength	20	KJ/m	ASTM D4272
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
<b>Optical</b>			
Haze	50	%	ASTM D1003 A
Gloss(45°)	34	GU	ASTM D2457
<b>Recommended Process Conditions<sup>4</sup></b>			
<b>Extruder Temperature profile: 175-190 °C</b>		<b>Blow up ratio: 2-4</b>	
<b>Extruder Barrel Temperature: 45-100 μm</b>			

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% LFI2575.
4. Please note that, these processing conditions are recommended by producer only for 100% LFI2119 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.