

Technical Data Sheet

LFI 2047 A

Low Density Polyethylene

LFI2047A is a low density polyethylene, with good toughness and good optical properties. This product contains a medium level of anti-block and slip agent (Erucamide), has low energy consumption during processing and a good draw down ability. It typically exhibits low friction and low blocking.

Applications:

LFI2047A is recommended for blown film extrusion. This product is very suitable for high clarity laundry bags, textile wrapping films and zip lock bags. This grade enables high speed converting without sticking.

Typical Properties	Typical Value ¹	Units	Test Method
Physical Properties			
MFI (190 °C /2 .16 Kg)	4.7	dg/min	ISO 1133
Density	920	Kg/m ³	ISO 1183 (A)
Mechanical Properties²			
Impact strength	15	KJ/m	ASTM D 4272
Tear strength (TD)	25	KN/m	ISO 6383-2
Tear Strength (MD)	80	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)	15	MPa	ISO 527-1,3
Tensile Stress at break (MD)	27	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)	200	MPa	ISO 527-1,3
Modulus of Elasticity (MD)	200	MPa	ISO 527-1,3
Coefficient of friction	0.2		ASTM D 1894
Blocking	20	g	ASTM D3354
Re-blocking	10	g	SABTEC method
Haze	9	%	ASTM D 1003A
Gloss(45°)	55	%	ASTM D 2457
Clarity	21	mv	SABTEC method
Additive: Antioxidant , Slip agent, Anti blocking agent			

(1) Typical Values: not to be construed as specifications limits.

(2) Properties are based on 25 µm blown film produced at a melt temperature of 160°C and 3 BUR using 100% LTM 2047/37.