ISPLEN® PB 154 M1F

Polypropylene Impact Copolymer

REPSOL

Message:

NEW ISPLEN® PB154M1F is a medium melt flow rate heterophasic polypropylene, especially developped for films with a high impact strenght even at low temperatures.
Its special structural characteristics provide it high impact strength, good processability, high tear strength and better optical properties than convencional heterophasic copolymers.
Additionally, this grade includes both antiblock and slip agents.
APPLICATIONS.
Non oriented film extrusion where high impact and tear strength are essential:
Single layer films / Core-layer in co-extruded cast films
Packaging of foodstuffs and non-food stuffs
Its recommended melt temperature range goes from 190 to 250°C. Processing conditions may be optimised for each production line.

General Information	
Additive	Antiblock
	Slip
Features	Antiblocking
	Food Contact Acceptable
	Good Processability
	Good Tear Strength
	High Impact Resistance
	High Strength
	Low Temperature Impact Resistance
	Medium Flow
	Opticals
	Slip
Uses	Cast Film
	Film
	Food Packaging
	Packaging
Agency Ratings	EU Food Contact, Unspecified Rating
Processing Method	Cast Film
	Coextrusion
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.905	g/cm³	ISO 1183

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus (Injection Molded)	1100	MPa	ISO 178
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
Tensile Stress - MD			ISO 527-3
Yield, 50 µm	17.0	MPa	
Break, 50 µm	34.0	MPa	
Elmendorf Tear Strength (50 µm)	0.95	N	ISO 6383-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C, Injection Molded)	15	kJ/m^2	ISO 179
Multi-Axial Instrumented Impact Energy (-20°C, 1.00 mm, Injection Molded)	9.50	J	ISO 6603-2
Multi-Axial Instrumented Impact Peak Force (-20°C, 1.00 mm, Injection Molded)	1790	N	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	82.0	°C	ISO 75-2/B
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (60°, 50.0 µm)	43		ASTM D2457
Haze (50.0 µm)	22	%	ASTM D1003
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	190 to 250	°C	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China