

Polypropylene

Moplen EP1 X 30 F

Moplen EP1 X 30 F is a slightly modified polypropylene random copolymer for the production of cast and water-quenched blown film. Moplen EP1 X 30 F is formulated with a general purpose package and does not contain any slip or antiblock agents.

Moplen EP1 X 30 F is designed for quality packaging applications, either as monolayer film or as welding layer on coextruded structures. The product offers excellent processability, high clarity and gloss and good heat weldability. The seal initiation temperature is about 136°C.

Because of its good heat weldability, Moplen EP1 X 30 F is well suited for lamination to bioriented polypropylene films or other materials to form a welding layer. Film produced with Moplen EP1 X 30 F is particularly suited for packaging of foodstuffs such as sweets, pasta, biscuits and snacks and for the packaging of books, stationery, blankets, shirts and hosiery.

Moplen EP1 X 30 F is furthermore suitable for injection moulding caps and closures.

TYPICAL PROPERTIES	METHOD (b)	UNIT	VALUE (a)
Physical properties			
Melt flow rate (230°C, 2.16 kg)	ISO 1133	dg/min	8
Density	ISO 1183	g/cm ³	0.9
Mechanical properties			
Flexural modulus	ISO 178	N/mm ²	1050
Tensile strength yield	ISO R 527	N/mm ²	28
Elongation at yield	ISO R 527	%	14
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m ²	4.5
Hardness Shore D	ISO 868	points	67
Thermal properties			
Vicat softening point (9.8 N)	ISO 306/A	°C	140
H.D.T. (0.46 Mpa)	ISO 75/B	°C	90
Accelerated oven ageing in air (forced circulation) at 150°C	ISO 4577	hours	360
Optical properties			
Haze	MTM 17031	%	0.6
Gloss (45°C)	MTM 17021	%	88