

100-SB09

Product Technical Information

Polypropylene **100-SB09** is a homopolymer with a Melt Flow Index of 9 g/10 min for the cast extrusion of films with excellent optical properties and good stiffness.

Polypropylene **100-SB09** is formulated with slip and anti-block agents. It is recommended for food packaging, textile packaging, flowers packaging, lamination films and stationary supplies.

Characteristics

Properties	Test Methods	Values	Units
Rheological			
Melt Flow Rate 230°C/2.16Kg	ISO 1133	9	g/10 min
Mechanical			
Tensile Strength at Yield	ISO 527-2	30	MPa
Elongation at Yield	ISO 527-2	10	%
Tensile modulus	ISO 527-2	1400	MPa
Flexural modulus	ISO 178	1300	MPa
Izod Impact Strength (notched) at 23°C	ISO 180	4	kJ/m ²
Charpy Impact Strength (notched) at 23°C	ISO 179	5	kJ/m ²
Hardness Rockwell - R-scale	ISO 2039-2	95	
Thermal			
Melting Point	ISO 3146	160	°C
Vicat Softening Point	ISO 306		°C
50N-50°C per hour		87	
10N-50°C per hour		152	
Heat Deflection Temperature	ISO 75-2		°C
1.80 MPa - 120°C per hour		55	
0.45 MPa - 120°C per hour		100	
Other physical properties			
Density	ISO 1183	0.905	g/cm ³
Bulk Density	ISO 60	0.525	g/cm ³

Data should not be used for specification work



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Additional Properties: typical film properties on 50µm thick cast film

Properties	Test Methods	Values	Units
Optical			
Gloss 45°	ASTM D2457	89	
Haze	ISO 14782	1.4	%
Mechanical*			
Tensile Strength at Yield MD / TD *	ISO 527-3	22 / 22	MPa
Tensile Strength at Break MD / TD *	ISO 527-3	60 / 55	MPa
Tensile Elongation at Break MD / TD *	ISO 527-3	700 / 700	%
Dart Impact	ISO 7765-1	280	g
Elmendorf MD / TD	ISO 6383-2	14 / 27	N/mm
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* MD: Machine Direction

TD: Transverse Direction

Storage

The product should be stored in a dry and dust free environment at temperature below 50°C. Exposure to direct sunlight should be avoided as this may lead to product deterioration. It is advised to process the product within maximum one year after delivery.