101-GA09

Product Technical Information

Polypropylene **101-GA09** 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 sterilizability.

Polypropylene **101-GA09** can be used as single layer films as well as in the core layer of coextruded films, for food packaging, hosiery packaging, shirt packaging, laminations films, ... as well as for stationary supplies.

Polypropylene **101-GA09** can also be used for general purpose and technical injection moulding.

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	1450	MPa
Flexural modulus	ISO 178	1350	MPa
Izod Impact Strength (notched) at 23°C	ISO 180	4	kJ/m²
Charpy Impact Strength (notched) at 23°C	ISO 179	5	kJ/m²
Hardness Rockwell - R-scale	ISO 2039-2	95	
Thermal			
Melting Point	ISO 3146	160	°C
Viscat Softening Point	ISO 306		°C
50N-50°C per hour		87	
10N-50°C per hour		152	
Heat Deflection Temperature	ISO 752		°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/cm³
Bulk Density	ISO 60	0.525	g/cm³

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 D 2457	91	
Haze	ISO 14782	0.1	%
Mechanical*			
Tensile Strength at Yield MD / TD *	ISO 527-3	23 / 23	MPa
Tensile Strength at Break MD / TD *	ISO 527-3	51 / 42	MPa
Tensile Elongation at Break MD / TD *	ISO 527-3	650 / 600	%
Dart Impact	ISO 7765-1	270	g
Elmendorf MD / TD	ISO 6383-2	17 / 20	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.