

Description

Polypropylene PPH 6088 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 PPH 6088 is formulated with slip and anti-block agents. It is recommended for food packaging, textile packaging, flowers packaging, lamination films and stationary supplies.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	9
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	30
Elongation at Yield	ISO 527-2	%	10
Tensile modulus	ISO 527-2	MPa	1400
Flexural modulus	ISO 178	MPa	1300
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m ²	4
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m ²	5
Hardness Rockwell - R-scale	ISO 2039-2		95
Thermal properties			
Melting Point	ISO 3146	°C	160
Vicat 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	g/cm ³	0.905
Bulk Density	ISO 1183	g/cm ³	0.525
Additives			
Antiblock (SiO ₂) typical content	TOTAL method	ppm	1890
Slip (Erucamide) typical content	TOTAL method	ppm	1890

Additional Properties: typical film properties

	Method	Unit	Typical Value
Optical properties			
Gloss 45°	ASTM D 2457		89
Haze	ISO 14782	%	1.4
Mechanical properties			
Tensile Strength at Yield MD / TD *	ISO 527-3	MPa	22 / 22
Tensile Strength at Break MD / TD *	ISO 527-3	MPa	60 / 55
Tensile Elongation at Break MD / TD *	ISO 527-3	%	700 / 700
Dart Impact	ISO 7765-1	g	280
Elmendorf MD / TD *	ISO 6383-2	N/mm	14 / 27

* MD : Machine Direction TD : Transverse Direction

Properties measured on a 50µm thick film produced on a cast film line following TOTAL internal conditions.

When considering these film properties, it should be taken into consideration that film properties are strongly dependent from processing conditions.