TOTAL

Refining & Chemicals
Polymers

Technical data sheet
Polypropylene – Homopolymer
Produced in Europe

Description

Polypropylene PPH 4069 is homopolymer with a Melt Flow Index of 4 g/10 min.

Polypropylene PPH 4069 is intended for extrusion of high tenacity staple fibres for nonwoven applications.

It exhibits excellent spinning properties.

Polypropylene PPH 4069 has an anti gas-fading formulation to reduce yellowing in fibres.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	4
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	35
Elongation at Yield	ISO 527-2	%	10
Tensile modulus	ISO 527-2	MPa	1550
Flexural modulus	ISO 178	MPa	1450
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m²	3.5
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m²	4.5
Hardness Rockwell - R-scale	ISO 2039-2		95
Thermal properties			
Melting Point	ISO 3146	°C	164
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			85
10N-50°C per hour			150
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/cm³	0.905
Bulk Density	ISO 1183	g/cm³	0.525

Polypropylene