



TotalEnergies

Refining & Chemicals
Polymers

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Polypropylene Aceso® PPM R021 S01

Technical data sheet
Polypropylene – Random Copolymer
Produced in Europe

Description

Polypropylene Aceso® PPM R021 S01 is a random copolymer polypropylene with a Melt Flow Index of 1.8 g/10 min specially developed for the extrusion blow-moulding of medical containers and medical devices, to the exclusion of implants. This grade can also be injection moulded.

Polypropylene Aceso® PPM R021 S01 is based on a phthalate-free catalyst.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	1.8
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	26
Elongation at Yield	ISO 527-2	%	10
Tensile modulus	ISO 527-2	MPa	1000
Flexural modulus	ISO 178	MPa	900
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m ²	6
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m ²	8
Hardness Rockwell - R-scale	ISO 2039-2		82
Thermal properties			
Melting Point	ISO 3146	°C	149
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			67
10N-50°C per hour			130
Other physical properties			
Density	ISO 1183	g/cm ³	0.902
Bulk Density	ISO 1183	g/cm ³	0.525

Polypropylene