



## Description

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

## Characteristics

	Method	Unit	Typical Value
<b>Rheological properties</b>			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	1.8
<b>Mechanical properties</b>			
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 <sup>2</sup>	6
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m <sup>2</sup>	8
Hardness Rockwell - R-scale	ISO 2039-2		82
<b>Thermal properties</b>			
Melting Point	ISO 3146	°C	149
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			67
10N-50°C per hour			130
<b>Other physical properties</b>			
Density	ISO 1183	g/cm <sup>3</sup>	0.902
Bulk Density	ISO 1183	g/cm <sup>3</sup>	0.525