

Description

Polypropylene PPC 7810B is a very high impact heterophasic copolymer with a Melt Flow Index of 13 g/10min.

Polypropylene PPC 7810B has been specially developed for the injection moulding of automotive parts that require a very high impact resistance even at low temperature, like automotive bumpers.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	13
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	20
Elongation at Yield	ISO 527-2	%	6
Tensile modulus	ISO 527-2	MPa	900
Flexural modulus	ISO 178	MPa	950
Izod Impact Strength (notched)	ISO 180	kJ/m ²	
at 23°C			> 50
at -20°C			8.5
Charpy Impact Strength (notched)	ISO 179	kJ/m ²	
at 23°C			> 50
at -20°C			8
at -30°C			7
Hardness Rockwell - R-scale	ISO 2039-2		78
Thermal properties			
Melting Point	ISO 3146	°C	165
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			65
10N-50°C per hour			135
Heat Deflection Temperature	ISO 75-2	°C	
1.80 MPa - 120°C per hour			50
0.45 MPa - 120°C per hour			92
Other physical properties			
Density	ISO 1183	g/cm ³	0.905
Bulk Density	ISO 1183	g/cm ³	0.525