

Technical Data Sheet

Moplen HP501L



Polypropylene, Homopolymer

Product Description

Moplen HP501L is a polypropylene homopolymer for use in injection and compression molding applications. *Moplen* HP501L exhibits a good stiffness/impact balance at ambient temperature. It provides good hinge performances on caps, as well as good environmental stress cracking resistance. *Moplen* HP501L is used in caps, closures, sprayers, housewares and furniture.

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

Application	Caps & Closures; Housewares
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding; Thermoforming
Attribute	Homopolymer; Medium Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	6	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1500	MPa	ISO 527-1, -2
Tensile Stress at Yield	34	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	9	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	4.5	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	74	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	154	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2