

Technical Data Sheet

Moplen HP501H

Polypropylene, Homopolymer

Product Description

Moplen HP501H is a polypropylene homopolymer for use in injection and compression molding applications. Moplen HP501H 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 HP501H is used in caps, closures, sprayers, housewares and furniture. Moplen HP501H is UL listed under file E31765.

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	Extrusion Blow Molding; Injection Molding; Thermoforming
Attribute	General Purpose; Homopolymer; Medium Impact Resistance; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	2.1	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1450	MPa	ISO 527-1, -2
Tensile Stress at Yield	33	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)	8	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	72	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