

## Technical Data Sheet

### Moplen PP645H



Polypropylene, Homopolymer

#### Product Description

Moplen PP645H is a polypropylene homopolymer with low fluidity and is used in compression molding applications.

Moplen PP645H is formulated in order to optimise its performance in caps and closure applications.

This grade is not intended for medical and pharmaceutical applications.

<b>Application</b>	Caps & Closures
<b>Market</b>	Consumer Products; Rigid Packaging
<b>Processing Method</b>	Compression Molding
<b>Attribute</b>	High Slip; Homopolymer; Nucleated

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	2.2	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Tensile Modulus	1700	MPa	ISO 527-1, -2
Tensile Stress at Yield	35	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	8	%	ISO 527-1, -2
<b>Impact</b>			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	10	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	78	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature, (A50)	154	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	105	°C	ISO 75B-1, -2