

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.

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

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