

Technical Data Sheet

Moplen HP548N



Polypropylene, Homopolymer

Product Description

Moplen HP548N is a polypropylene homopolymer with medium melt flow rate, used in injection molding applications.

Moplen HP548N exhibits good stiffness and flowability. It is nucleated, for improved productivity and lower cycle times. Its antistatic addition ease demolding and prevents dust deposits.

Typical applications of *Moplen* HP548N are caps, closures, containers and housewares.

This grade is not intended for medical and pharmaceutical applications.

Application	Caps & Closures; Housewares
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; Medium Flow; Medium Stiffness; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	11	g/10 min	ISO 1133-1
Density, (23 °C)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1800	MPa	ISO 527-1, -2
Tensile Stress at Yield	36	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	kJ/m ²	ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	71	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