

Technical Data Sheet

Moplen EP448S

Polypropylene, Impact Copolymer

Product Description

Moplen EP448S is a nucleated heterophasic copolymer with antistatic agent used injection moulding applications.

Moplen EP448S offers a good impact/stiffness balance with a medium fluidity combines with good organoleptic performance.

Moplen EP448S is typically used by customers in opaque containers, housewares, toys, furniture, pails and crates.

This grade is not intended for medical and pharmaceutical applications.

Application	Crates; Housewares; Opaque Containers; Pails; Sports, Leisure & Toys
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; Good Organoleptic Properties; Impact Copolymer; Medium Flow; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	44	g/10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1400	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Break	50	%	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	6	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	4	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	3	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	150	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	100	°C	ISO 75B-1, -2