

Technical Data Sheet

Moplen EP549P



Polypropylene, Impact Copolymer

Product Description

Moplen EP549P is a fast crystallization heterophasic copolymer, suitable for injection moulding applications, and contains an anti-static agent. It exhibits a high stiffness combined with a medium fluidity.

Customers reported that Moplen EP549P is can be used successfully in houseware, garden furniture, cylindrical containers for detergency and crates.

This grade is not intended for medical and pharmaceutical applications.

Application	Crates; Furniture; Housewares; Opaque Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; Impact Copolymer; Medium Flow; Medium Stiffness; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	15	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	25.5	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	7	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	9	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	5.5	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature			
(A50)	151	°C	ISO 306
(B50)	70	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	103	°C	ISO 75B-1, -2