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/cm³	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/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	6.5	kJ/m²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	5.5	kJ/m²	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