

Technical Data Sheet

Moplen EP549U



Polypropylene, Impact Copolymer

Product Description

Moplen EP549U is a nucleated heterophasic copolymer with antistatic additivation, used in thin-walled injection moulding applications.

Moplen EP549U features an good balance of mechanical properties combined with a high fluidity.

Moplen EP549U is typically used by customers in ice cream containers, yellow fat lids and containers, packaging for dairy products, housewares, toy boxes, flower pots.

This grade is not intended for medical and pharmaceutical applications.

Application	Housewares; Opaque Containers; Sports, Leisure & Toys
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; High Flow; Impact Copolymer; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	70	g/10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1260	MPa	ISO 527-1, -2
Tensile Stress at Yield	23	MPa	ISO 527-1, -2
Tensile Strain at Break	20	%	ISO 527-1, -2
Tensile Strain at Yield	4	%	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	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	5	kJ/m ²	ISO 179
Ductile/Brittle Transition Temperature	-45	°C	ISO 6603-2
Thermal			
Vicat Softening Temperature, (A50)	147	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	98	°C	ISO 75B-1, -2