

Technical Data Sheet

Moplen EP548U



Polypropylene, Impact Copolymer

Product Description

Moplen EP548U is a nucleated heterophasic copolymer with antistatic additivation, used in injection moulding applications.

It exhibits an good impact/stiffness balance combined with a high fluidity.

Moplen EP548U is typically used by customers in opaque containers, housewares, toys and in thin-walled containers for food packaging (e.g. margarine tubs, yoghurt pots, etc.).

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	1450	MPa	ISO 527-1, -2
Tensile Stress at Yield	28	MPa	ISO 527-1, -2
Tensile Strain at Break	30	%	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)	4	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	3	kJ/m ²	ISO 179
Ductile/Brittle Transition Temperature	-53	°C	ISO 6603-2
Thermal			
Vicat Softening Temperature, (A50)	151	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	95	°C	ISO 75B-1, -2