Technical Data Sheet

Moplen EP546U

Polypropylene, Impact Copolymer

Product Description

Moplen EP546U is a nucleated heterophasic copolymer with antistatic additivation, suitable for injection moulding applications. It exhibits an outstanding balance of mechanical properties combined with a very hig fluidity.
Moplen EP546U is extensively used in housewares and thin wall injection moulded containers for food packaging (eg. margarine tubs, yoghurt pots etc).

Status	Commercial: Active
Availability	Africa-Middle East; Asia-Pacific; Australia and New Zealand; Europe
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/cm³	ISO 1183-1
Mechanical			
Tensile Modulus	1550	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)	5	kJ/m²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (A/50 N)	151	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	95	°C	ISO 75B-1, -2

Notes

These are typical property values not to be construed as specification limits.