



Moplen EP549U

Polypropylene, Impact Copolymer

Product Description

Moplen EP549U is a nucleated, antistatic formulated, very high flow heterophasic copolymer designed for thin-walled injection moulding applications.

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

The main applications of Moplen EP549U are ice cream containers, yellow fat lids and containers, packaging for dairy products, housewares, toy boxes, flower pots.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Injection Molding
Features	Antistatic, Impact Copolymer, High Flow , Nucleated
Typical Customer Applications	Housewares, Opaque Containers, Sports, Leisure and Toys

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	70	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1260	MPa
Tensile Stress at Yield	ISO 527-1, -2	23	MPa
Tensile Strain at Break	ISO 527-1, -2	10	%
Tensile Strain at Yield	ISO 527-1, -2	4	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		9.0	kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		6.0	kJ/m ²
(-20 °C, Type 1, Edgewise, Notch A)		5.0	kJ/m ²
Ductile/Brittle transition temperature	ISO 6603-2	-45	°C
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	98	°C
Vicat softening temperature A/50	ISO 306	147	°C
Vicat softening temperature B/50	ISO 306	67	°C

Notes

Typical properties; not to be construed as specifications.