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/cm³
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/m²
(0 °C, Type 1, Edgewise, Notch A)		6.0	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		5.0	kJ/m²
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.