Moplen EP348U

Polypropylene, Impact Copolymer

Product Description

Moplen EP348U is a nucleated, antistatic formulated, very high flow heterophasic copolymer used for thin-walled injection moulding applications.
Moplen EP348U features an excellent balance between easy processing and good impact strength.
The main applications of *Moplen* EP348U are margarine tubs, packaging for dairy products, ice cream containers, lids, caps, housewares, toy boxes, flower pots and laundry baskets.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Injection Molding
Typical Customer Applications	Caps & Closures, Housewares, Opaque Containers

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
Melt volume flow rate (230°C/2.16kg)	ISO 1133	95	cm³/10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1200	MPa
Tensile Stress at Yield	ISO 527-1, -2	24	MPa
Tensile Strain at Break	ISO 527-1, -2	30	%
Tensile Strain at Yield	ISO 527-1, -2	4	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		110	kJ/m²
(0 °C, Type 1, Edgewise)		100	kJ/m²
(-20 °C, Type 1, Edgewise)		80	kJ/m²
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		5.5	kJ/m²
(0 °C, Type 1, Edgewise, Notch A)		4.0	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		3.2	kJ/m²
Ductile/Brittle transition temperature	ISO 6603-2	-45	°C
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	50	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	92	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		150	°C
(B50 (50°C/h 50N))		65	°C
Optical			
Gloss (60°)	ASTM D 2457	65	%

Notes

Typical properties; not to be construed as specifications.