



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.