



Moplen EP648V

Polypropylene, Impact Copolymer

Product Description

Moplen EP648V is a nucleated, antistatic ultra high fluidity heterophasic copolymer designed for thin-walled injection moulding applications.

Moplen EP648V exhibits high stiffness, good dimensional stability and outstanding antistatic properties.

The main applications of Moplen EP648V are very thin-walled articles as margarine tubs, packaging of dairy products as well as items with a long flow path such as laundry bins and storage systems.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Injection Molding
Typical Customer Applications	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	100	g/10 min
Melt volume flow rate (230°C/2.16kg)	ISO 1133	135	cm³/10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1750	MPa
Tensile Stress at Yield	ISO 527-1, -2	30	MPa
Tensile Strain at Break	ISO 527-1, -2	10	%
Tensile Strain at Yield	ISO 527-1, -2	4	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23 °C)		70	kJ/m²
(0 °C)		50	kJ/m²
(-20 °C)		35	kJ/m²
Charpy notched impact strength	ISO 179		
(23 °C)		2.5	kJ/m²
(0 °C)		2.0	kJ/m²
(-20 °C)		1.5	kJ/m²
Ductile/Brittle transition temperature	ISO 6603-2	-20	°C
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	83	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	100	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		154	°C
(B50 (50°C/h 50N))		90	°C
Optical			
Gloss (60°)	ASTM D 2457	75	

Notes

Typical properties; not to be construed as specifications.