Moplen EP548S

Polypropylene, Impact Copolymer

Product Description

Moplen EP548S is a nucleated heterophasic copolymer with antistatic agent used for injection moulding applications.
It exhibits an outstanding balance of mechanical properties combined with a medium high fluidity.

Moplen EP548S is extensively used in housewares and in thin-walled containers for food packaging (e.g. margerine tubs, yoghurt pots, etc.).

Moplen EP548S is suitable for food contact.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Method	Injection Molding
Features	Antistatic, High Flow , Nucleated
Typical Customer Applications	Sports, Leisure and Toys, 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	44	g/10 min
Melt volume flow rate (230°C/2.16kg)	ISO 1133	59	cm³/10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1550	MPa
Tensile Stress at Yield	ISO 527-1, -2	28	MPa
Tensile Strain at Break	ISO 527-1, -2	30	%
Tensile Strain at Yield	ISO 527-1, -2	5	%
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)		85	kJ/m²
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		5.0	kJ/m²
(0 °C, Type 1, Edgewise, Notch A)		3.5	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		3.0	kJ/m²
Ductile/Brittle transition temperature	ISO 6603-2	-53	°C
Hardness			