

Moplen EP548S

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

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. margarine tubs, yoghurt pots, etc.). Moplen EP548S is suitable for food contact.

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Food Contact Acceptable		
	High Flow		
	Impact Copolymer		
	Nucleated		
Uses	Food Containers		
	Food Packaging		
	Household Goods		
	Sporting Goods		
	Thin-walled Containers		
	Thin-walled Packaging		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	44	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	59.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	68.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1550	MPa	ISO 527-2
Tensile Stress (Yield)	28.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	5.0	%	

Break	30	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	3.0	kJ/m ²	
0°C	3.5	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	85	kJ/m ²	
0°C	100	kJ/m ²	
23°C	110	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	95.0	°C	ISO 75-2/B
Ductile / Brittle Transition Temperature	-53.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	151	°C	ISO 306/A50
--	80.0	°C	ISO 306/B50

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