

Moplen EP548U

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP548U is a nucleated heterophasic copolymer with antistatic additivation, suitable for injection moulding applications. It exhibits an outstanding balance of mechanical properties combined with a very high fluidity. Moplen EP548U is extensively used in housewares and in thin-walled containers for food packaging (e.g. margarine tubs, yoghurt pots, etc.).

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Food Contact Acceptable		
	High Flow		
	Impact Copolymer		
	Nucleated		
Uses	Containers		
	Food Packaging		
	Household Goods		
	Sporting Goods		
	Thin-walled Containers		
	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)	70	g/10 min	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	
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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

