

Moplen EP545L

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

"Moplen" EP545L is the polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen EP545L is a heterophasic copolymer typically used by customers in the production of beverage closures using both compression and injection moulding technologies. The resin is additivated with both slip and antistatic whilst exhibiting a good stiffness and impact strength. Additional applications for this resin include housewares and medium-sized containers. Moplen EP545L resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information	
Additive	Antistatic property slip agent
Features	Block Copolymer Rigid, good smoothness Antistatic property Impact resistance, good Compliance of Food Exposure
Uses	Shield Household goods Container Sporting goods Shell Toys
Agency Ratings	FDA 21 CFR 177.1520
RoHS Compliance	Contact manufacturer
Processing Method	Compression molding Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1550	MPa	ISO 527-2/1
Tensile Strength			
Yield	30.4	MPa	ASTM D638
Yield, 23°C	29.0	MPa	ISO 527-2/50

Tensile Elongation			
Yield	7.0	%	ASTM D638
Yield, 23°C	5.0	%	ISO 527-2/50
Flexural Modulus			
--	1450	MPa	ASTM D790
--	1500	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.0	kJ/m ²	ISO 179/1eA
0°C	3.0	kJ/m ²	ISO 179/1eA
23°C	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	74	kJ/m ²	ISO 179/1eU
0°C	95	kJ/m ²	ISO 179/1eU
23°C	130	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	8.0	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/A50

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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



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