

Moplen EP649N

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP649N is a medium flow heterophasic copolymer development grade with outstanding mechanical properties and antistatics. The product features an easy processability and an excellent stiffness combined with good impact properties and high gloss.

This grade is suitable for a wide range of appliances parts, Toys and consumer goods industries.

Moplen EP649N resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
UL YellowCard	E215205-534224		
Features	Rigid, good		
	Highlight		
	Antistatic property		
	Impact resistance, good		
	Compliance of Food Exposure		
Uses	Home appliance components		
	Toys		
	Consumer goods application field		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183, ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield	31.4	MPa	ASTM D638
Yield, 23°C	32.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	7.0	%	ASTM D638
Yield, 23°C	6.0	%	ISO 527-2/50
Flexural Modulus			
--	1810	MPa	ASTM D790
--	1750	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	3.0	kJ/m ²	ISO 179/1eA
0°C	4.0	kJ/m ²	ISO 179/1eA
23°C	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	64	kJ/m ²	ISO 179/1eU
0°C	95	kJ/m ²	ISO 179/1eU
23°C	140	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ASTM D256
-20°C	39	J/m	ASTM D256
23°C	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	130	°C	ASTM D648
0.45 MPa, not annealed	102	°C	ISO 75-2/B
Vicat Softening Temperature	153	°C	ISO 306/A50

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