

# Moplen EP2838

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP2838 is a heterophasic copolymer suitable for production of beverage closures using both compression and injection moulding technologies. This resin offers a good balance of stiffness and impact strength. The resin is nucleated and additivated with both slip and antistatic agent for easy opening of closures. Other injection moulding applications may include housewares and medium size containers.

General Information			
Additive	Nucleating agent		
	Antistatic property		
	slip agent		
Features	Nucleated		
	smoothness		
	Impact copolymer		
	Antistatic property		
Uses	Shield		
	Household goods		
	Container		
	Sporting goods		
	Shell		
	Toys		
Processing Method	Compression molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	64.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	7.0	%	ISO 527-2
Fracture	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.5	kJ/m <sup>2</sup>	ISO 179/1eA
0°C	3.5	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	5.5	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	100	°C	ISO 75-2/B
Vicat Softening Temperature			
--	151	°C	ISO 306/A50
--	80.0	°C	ISO 306/B50

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