

# Moplen EP500N

Polypropylene Copolymer

PolyMirae

## Message:

Moplen EP500N is a polypropylene impact copolymer manufactured using the Spheripol process. This grade has optimized balance of stiffness and toughness. Potential applications include injection molding of containers, crates and pails, electrical appliance parts and general housewares.

General Information			
Features	Rigid, good		
	Impact copolymer		
	Impact resistance, good		
	Workability, good		
Uses	Electrical components		
	Home appliance components		
	Furniture		
	Household goods		
	Container		
	Barrel		
	Loading box		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26.5	MPa	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Flexural Modulus	1130	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	49	J/m	ASTM D256
23°C	98	J/m	ASTM D256

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