

# Moplen EP542R

Polypropylene Copolymer

PolyMirae

## Message:

Moplen EP542R is a polypropylene impact copolymer manufactured using the Spheripol process. This grade is known for its optimized balance of stiffness and toughness. Potential applications include injection molding of washing machine tubs, electrical appliance parts, thin-wall packaging, and general housewares.

General Information			
Features	Rigid, good		
	Impact copolymer		
	Impact resistance, high		
	Workability, good		
	Fast molding cycle		
	Good toughness		
Uses	Thin wall packaging		
	Large household appliances and small household appliances		
	Electrical components		
	Electrical appliances		
	Household goods		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	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)	27.5	MPa	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Flexural Modulus	1340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	39	J/m	ASTM D256
23°C	78	J/m	ASTM D256

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