

Moplen EP542R

Polypropylene Copolymer

PolyMirae

Message:

Moplen EP542R is the polypropylene block copolymer manufactured by PMC under the license of BASSELL using the Spheripol process. Moplen EP542R is a block copolymer selected by customers for use in injection molding of washing machine tub, thin-walled packaging, parts of electrical appliances, housewares etc.

Moplen EP542R resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
UL YellowCard	E215205-488821		
Features	Block Copolymer		
	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Processability		
	Good Stiffness		
	Good Toughness		
Uses	Low Warpage		
	Appliance Components		
	Electrical/Electronic Applications		
	Household Goods		
Agency Ratings	Thin-walled Packaging		
	FDA 21 CFR 177.1520		
	Contact Manufacturer		
	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ASTM D1505
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, Injection Molded)	27.5	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus (Injection Molded)	1340	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, Injection Molded	39	J/m	

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