

Moplen EP642S

Polypropylene Copolymer

PolyMirae

Message:

Moplen EP642S is the polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen EP642S is a block copolymer suitable for automotive compounding base,thin-walled packaging, housewares, etc.
Moplen EP642S resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.

General Information			
Features	Block Copolymer		
	Food Contact Acceptable		
	Good Stiffness		
	Good Toughness		
	High Flow		
	Low Warpage		
Uses	Automotive Applications		
	Compounding		
	Containers		
	Household Goods		
	Thin-walled Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
RoHS Compliance	Contact Manufacturer		
Forms	Pellets		
Processing Method	Compounding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	37	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	27.5	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	30	%	ASTM D638
Flexural Modulus (Injection Molded)	1570	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, Injection Molded	39	J/m	
23°C, Injection Molded	78	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	125	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525

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