

Moplen EP642S

Polypropylene Copolymer

PolyMirae

Message:

Moplen EP642S is a polypropylene impact copolymer manufactured using the Spheripol process. This grade is known for having an optimized balance of stiffness and toughness. Typical applications include injection molding of Thin Wall Containers and other housewares, and as base resin for compounding.

General Information			
Features	Rigidity, high		
	Impact copolymer		
	Workability, good		
	High liquidity		
	Heat resistance, high		
	Good toughness		
Uses	Thin wall container		
	Composite		
	Household goods		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
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)	27.5	MPa	ASTM D638
Flexural Modulus	1570	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
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	125	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525

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