

Moplen EP642R

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Moplen EP642R 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 washing machine tubs, electrical appliance parts (like vacuum cleaner housings), and general housewares.

General Information			
Features	Good Processability		
	Good Toughness		
	High Heat Resistance		
	High Stiffness		
	Impact Copolymer		
	Medium Gloss		
Uses	Appliances		
	Household Goods		
	White Goods & Small Appliances		
Forms	Pellets		
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)	27	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	31.4	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	1620	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	29	J/m	
23°C	59	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	135	°C	ASTM D648

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