



Moplen EP542R

Polypropylene, Impact Copolymer

Product Description

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.

Product Characteristics

Test Method used	ASTM
Processing Methods	Injection Molding
Features	Impact Copolymer, Fast Cycle (Production) , High Impact Resistance , Good Processability, Good Stiffness
Typical Customer Applications	Cooling, Dishwashing, Housewares, Opaque Containers, Washing

Typical Properties	Method	Value	Unit
Physical			
Density -Specific Gravity	ASTM D 792	0.9	g/cm ³
Melt Flow Rate (230°C/2.16kg)	ASTM D 1238	30	g/10 min
Note: ASTM D1238L			
Mechanical			
Flexural Modulus	ASTM D 790	13700	kg/cm ²
Tensile Strength @ Yield	ASTM D 638	280	kg/cm ²
Tensile Elongation @ Yield	ASTM D 638	6	%
Impact			
Notched Izod Impact	ASTM D 256		
(23 °C)		8	kg-cm/cm
(-20 °C)		4	kg-cm/cm
Hardness			
Rockwell Hardness (R Scale)	ASTM D 785	95	