



Moplen EP642R

Polypropylene, Impact Copolymer

Product Description

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.

Product Characteristics

Status	Commercial: Active
Test Method used	ASTM
Availability	Asia-Pacific, Australia/NZ, Africa-Middle East
Processing Methods	Injection Molding
Features	Impact Copolymer, High Heat Resistance , Good Processability, High Stiffness
Typical Customer Applications	Cooling, Dishwashing, Housewares, 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	27	g/10 min
<i>Note: ASTM D1238L</i>			
Mechanical			
Flexural Modulus	ASTM D 790	16500	kg/cm ²
Tensile Strength @ Yield	ASTM D 638	320	kg/cm ²
Tensile Elongation @ Yield	ASTM D 638	4	%
Impact			
Notched Izod Impact	ASTM D 256		
(23 °C)		6	kg-cm/cm
(-20 °C)		3	kg-cm/cm
Hardness			
Rockwell Hardness (R Scale)	ASTM D 785	100	
Thermal			
Heat deflection temperature at 0.46 N/mm ²	ASTM D 648	135	°C

Notes

Typical properties; not to be construed as specifications.