



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 Method	Injection Molding
Features	Impact Copolymer, High Heat Resistance , Good Processability, High Stiffness
Typical Customer Applications	Cooling, Housewares, Dishwashing, 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		
Tensile Strength @ Yield	ASTM D 638	320 kg/cm ²
Flexural Modulus	ASTM D 790	16500 kg/cm ²
Tensile Elongation @ Yld	ASTM D 638	4 %
Impact		
Notched izod impact (23 °C)	ASTM D 256	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.

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Users should review the applicable Material Safety Data Sheet before handling the product.

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