



Moplen RP440N

Polypropylene, Random Copolymer

Product Description

Moplen RP440N is a polypropylene random copolymer. With its high clarity, good chemical resistance, and good balance of rigidity and impact performance, this grade is suitable for a variety of injection molding applications. Potential end uses products include food containers, housewares, fan blades, motorcycle battery cases.

Product Characteristics

Status	Commercial: Active
Test Method used	ASTM
Availability	Asia-Pacific, Australia/NZ, Africa-Middle East
Processing Methods	Injection Molding
Features	Good Chemical Resistance, High Clarity, Random Copolymer, Good Impact Resistance, Good Processability, Medium Rigidity
Typical Customer Applications	Battery Cases, Clear Containers, Housewares

Typical Properties	Method	Value	Unit
Physical			
Density -Specific Gravity	ASTM D 792	0.90	g/cm ³
Melt Flow Rate (230°C/2.16kg)	ASTM D 1238	11	g/10 min
Mechanical			
Flexural Modulus	ASTM D 790	1400	MPa
Tensile Strength @ Yield	ASTM D 638	33	MPa
Tensile Elongation @ Yield	ASTM D 638	11	%
Impact			
Notched Izod Impact (23 °C)	ASTM D 256	37	J/m
Thermal			
Heat deflection temperature at 0.46 N/mm ²	ASTM D 648	99	°C

Notes

Typical properties; not to be construed as specifications.