



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.