



Moplen RP441N

Polypropylene, Random Copolymer

Product Description

Moplen RP441N is a polypropylene random copolymer manufactured using the Spheripol process. With its excellent gloss, clarity and flow, combined with its balance of rigidity and impact, this grade is particularly suitable for injection molding. Potential end use applications include housewares and Injection Stretch Blow Moulding (ISBM) of bottles.

Product Characteristics

Status	Commercial: Active
Test Method used	ASTM
Availability	Asia-Pacific, Australia/NZ, Africa-Middle East
Processing Method	Injection Moulding, Injection Stretch Blow Moulding
Features	Clarity, High, Copolymer, Random, Flow, Good, Gloss, High, Odor, Low to None, Strength, Good
Typical Customer Applications	Housewares, Bottles For Consumer Goods, Clear Containers

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	10	g/10 min
<i>Note: ASTM D1238L</i>			
Mechanical			
Tensile Strength @ Yield	ASTM D 638	340	kg/cm ²
Flexural Modulus	ASTM D 790	14000	kg/cm ²
Tensile Elongation @ Yld	ASTM D 638	8	%
Impact			
Notched izod impact	ASTM D 256		
(23 °C)		5.5	kg-cm/cm
(-20 °C)		2	kg-cm/cm
Hardness			
Rockwell Hardness (R Scale)	ASTM D 785	98	
Thermal			
Heat deflection temperature at 0.46 N/mm ²	ASTM D 648	104	°C
Optical			
Haze	ASTM D 1003	18	%

Notes

Typical properties; not to be construed as specifications.

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Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.

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