



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 Molding, Injection Stretch Blow Molding
Features	High Clarity, Random Copolymer, Good Flow, High Gloss, Low to No Odor, Good Strength
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
Note: ASTM D1238L		
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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- 1 Equistar Chemicals, LP
- 1 Basell Sales & Marketing Company B.V.
- 1 Basell Asia Pacific Limited
- 1 Basell International Trading FZE
- 1 LyondellBasell Australia Pty Ltd

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

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