

# 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

ASTM **Test Method used** 

**Availability** Asia-Pacific, Australia/NZ, Africa-Middle East

**Processing Methods** Injection Molding, Injection Stretch Blow Molding

High Clarity, Random Copolymer, Good Flow, High Gloss , Low to No Odor, Good Strength **Features** 

**Typical Customer Applications** Bottles For Consumer Goods, Clear Containers,

Typical Properties	Method	Value	Unit
Physical			
Density -Specific Gravity	ASTM D 792	0.9	g/cm³
Melt Flow Rate (230°C/2.16kg)	ASTM D 1238	10	g/10 min
Note: ASTM D1238L			
Mechanical			
Flexural Modulus	ASTM D 790	14000	kg/cm²
Tensile Strength @ Yield	ASTM D 638	340	kg/cm²
Tensile Elongation @ Yield	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/mm2	ASTM D 648	104	°C
Optical			
Haze	ASTM D 1003	18	%

## Notes

Typical properties; not to be construed as specifications.