

Moplen RP441N

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

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.

General Information			
Features	Good Flow		
	Good Impact Resistance		
	Good Strength		
	High Clarity		
	High Gloss		
	Low to No Odor		
	Medium Rigidity		
	Random Copolymer		
Uses	Blow Molding Applications		
	Bottles		
	Containers		
	Household Goods		
Forms	Pellets		
Processing Method	Injection Blow Molding		
	Injection Molding		
	Injection Stretch Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	33.3	MPa	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus	1370	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	20	J/m	

23°C	54	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	104	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze	18	%	ASTM D1003

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