Moplen RP343N

Polypropylene, Random Copolymer

Product Description

Moplen RP343N is a polypropylene random copolymer manufactured using the Spheripol process. With its excellent gloss, clarity and flow, combined with well balanced mechanical properties, this grade is particularly suitable for injection molding. Potential end use applications include housewares and ISBM.

Moplen RP343N does meet FDA requirements for food contact under the Code of Federal Regulations in 21 CFR 177.1520, with the exception of cooking applications.

Product Characteristics

Status	Commercial: Proprietary
Test Method used	ASTM
Availability	Asia-Pacific, Africa-Middle East, Latin America
Processing Methods	Injection Blow Molding, Injection Molding
Features	High Clarity, Random Copolymer, Good Flow, High Gloss , Low to No Odor, Good Strength
Typical Customer Applications	Blow Moulding Applications, Bottles For Consumer Goods, Containers, Housewares

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	12000	kg/cm2
Tensile Strength @ Yield	ASTM D 638	300	kg/cm2
Tensile Elongation @ Yield	ASTM D 638	12	%
Impact			
Notched Izod Impact	ASTM D 256		
(23 °C)		5	kg-cm/cm
(-20 °C)		2	kg-cm/cm
Hardness			
Rockwell Hardness (R Scale)	ASTM D 785	90	
Thermal			
Heat deflection temperature at 0.46 N/mm2	ASTM D 648	95	°C
Optical			
Haze	ASTM D 1003	16	%

Additional Properties

grade obsoleted in 2005

Notes

Typical properties; not to be construed as specifications.