

Moplen HP544T

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Moplen HP544T is a polypropylene homopolymer. With its high flow, excellent dimensional stability, and good surface finish, this grade is especially suitable for thin wall injection molding. Its ease of processing creates parts with lower built-in stress, thereby allowing greater flexibility in part design. Potential end use applications include fast cycle injection moulding of food containers, drinking cups, thin wall cylinders, and complex items.

General Information			
Features	Fatigue Resistant		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Processability		
	Good Surface Finish		
	High Flow		
	Low to No Odor		
Uses	Cups		
	Food Containers		
	Household Goods		
Processing Method	Injection 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)	60	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	37.0	MPa	ASTM D638
Tensile Elongation (Yield)	9.0	%	ASTM D638
Flexural Modulus	1700	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	26	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	119	°C	ASTM D648

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