

# Valtra® MA5210

High Impact Polystyrene  
Saudi Polymers Company

Message:

- Features
- Super high molecular weight
  - High impact properties
  - High heat distortion temperature resistance
  - Good scratch resistance
  - Excellent molding processability
- Typical Applications
- Fast cycling molding application like TV housing, air conditioner, video housing, instruments, home and office applications.

General Information			
Features	Ultra high molecular weight		
	Impact resistance, high		
	Workability, good		
	Fast molding cycle		
	Scratch resistance		
	Compliance of Food Exposure		
Uses	TV housing		
	Household goods		
	Shell		
Agency Ratings	FDA 21 CFR 177.1640		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup> (3.20 mm, Injection Molded)	2270	MPa	ASTM D638
Tensile Strength <sup>2</sup>			ASTM D638
Yield, 3.20mm, injection molding	30.0	MPa	ASTM D638
Fracture, 3.20mm, injection molding	27.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Yield, 3.20 mm, Injection Molded)	50	%	ASTM D638
Flexural Modulus <sup>4</sup> (3.20 mm, Injection Molded)	2280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method


Notched Izod Impact			ASTM D256
23°C, 3.18 mm	120	J/m	ASTM D256
23°C, 6.35 mm	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	103	°C	ASTM D1525 <sup>5</sup>
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	2.5 mm/min		
5.	标准 B (120°C/h)		

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