

# Valtra® MC3100

General Purpose Polystyrene

Saudi Polymers Company

## Message:

### Features

Fast cycling due to high heat distortion temperature resistance

Excellent clarity

Good toughness

Easy molding processability.

### Typical Applications

Compact-Disc jewel boxes

Consumer containers, vials, jars

Audio cassettes, etc.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Processability		
	Good Toughness		
	High Clarity		
Uses	Audio Tapes		
	Containers		
	Vials		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup> (3.20 mm, Injection Molded)	3170	MPa	ASTM D638
Tensile Strength <sup>2</sup>			ASTM D638
Yield, 3.20 mm, Injection Molded	54.0	MPa	
Break, 3.20 mm, Injection Molded	54.0	MPa	
Tensile Elongation <sup>3</sup> (Yield, 3.20 mm, Injection Molded)	4.5	%	ASTM D638
Flexural Modulus <sup>4</sup> (3.20 mm, Injection Molded)	3100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	19	J/m	
23°C, 6.35 mm	13	J/m	

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	107	°C	ASTM D1525 <sup>5</sup>
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	2.5 mm/min		
5.	Rate B (120°C/h)		

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#### Recommended distributors for this material

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