

# Valtra® MC3500

General Purpose Polystyrene

Saudi Polymers Company

## Message:

- Features
- Fast cycling & easy flow characteristics
- Excellent mold release properties.
- Typical Applications
- Toys
- Containers
- Instruments and home applications.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Flow		
	Good Mold Release		
Uses	Containers		
	Household Goods		
	Toys		
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)	9.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup> (3.20 mm, Injection Molded)	3100	MPa	ASTM D638
Tensile Strength <sup>2</sup>			ASTM D638
Yield, 3.20 mm, Injection Molded	50.0	MPa	
Break, 3.20 mm, Injection Molded	50.0	MPa	
Tensile Elongation <sup>3</sup> (Yield, 3.20 mm, Injection Molded)	3.0	%	ASTM D638
Flexural Modulus <sup>4</sup> (3.20 mm, Injection Molded)	3170	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	101	°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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