

Valtra® MC3700

General Purpose Polystyrene

Saudi Polymers Company

Message:

- Features
- Easy filling of thin-wall parts
- Exceptional mold release
- Improved cycle times in hard to fill parts
- Good toughness.
- Typical Applications
- Color concentrate carrier
- Consumer containers, vials, jars
- Disposable cutlery
- Injection molded drink cups

General Information			
Features	Good toughness		
	Compliance of Food Exposure		
	Good demoulding performance		
Uses	Cup		
	Container		
	Color masterbatch		
	Small bottle		
	Disposable tableware		
Agency Ratings	FDA 21 CFR 177.1640		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	18	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (3.20 mm, Injection Molded)	3100	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield, 3.20mm, injection molding	45.0	MPa	ASTM D638
Fracture, 3.20mm, injection molding	45.0	MPa	ASTM D638
Tensile Elongation ³ (Yield, 3.20 mm, Injection Molded)	3.0	%	ASTM D638
Flexural Modulus ⁴ (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	ASTM D256
23°C, 6.35 mm	13	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ASTM D1525 ⁵
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.	标准 B (120°C/h)		

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