

Americas Styrenics MC3700

General Purpose Polystyrene

Americas Styrenics LLC

Message:

Americas Styrenics MC3700 is a general-purpose polystyrene material. This product is available in North America. The main features of the Americas Styrenics MC3700 are:

- flame retardant/rated flame
- accessible food
- Rapid Prototyping Cycle
- Good toughness
- excellent release agent

Typical application areas include:

- kitchen utensils
- engineering/industrial accessories
- container
- Consumer goods
- food contact applications

General Information			
UL YellowCard	E326906-100264833		
Features	Fast molding cycle		
	Good toughness		
	Compliance of Food Exposure		
	Good demoulding performance		
Uses	Thin wall parts		
	Cup		
	Container		
	Color masterbatch		
	Consumer goods application field		
	Disposable wine set		
Agency Ratings	FDA 21 CFR 177.1640		
	USP Class VI		
UL File Number	E326906		
Appearance	Clear/transparent		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	109		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	3170	MPa	ASTM D638
Tensile Strength			ASTM D638
Fracture, injection molding	41.0	MPa	ASTM D638
Injection Molding	41.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	3.0	%	ASTM D638
Flexural Modulus (Injection Molded)	3310	MPa	ASTM D790
Flexural Strength (Injection Molded)	51.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Injection Molded)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	83.0	°C	ASTM D648
1.8 MPa, not annealed	77.0	°C	ASTM D648
Vicat Softening Temperature	94.0	°C	ASTM D1525
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	218 - 249	°C	
Middle Temperature	218 - 249	°C	
Front Temperature	199 - 213	°C	
Nozzle Temperature	213 - 243	°C	
Mold Temperature	15.6 - 65.6	°C	
Injection Rate	Fast		
Back Pressure	0.200 - 1.20	MPa	
Cushion	6.35	mm	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	177 - 193	°C	
Cylinder Zone 2 Temp.	182 - 204	°C	
Cylinder Zone 3 Temp.	188 - 210	°C	
Cylinder Zone 4 Temp.	199 - 216	°C	
Cylinder Zone 5 Temp.	204 - 221	°C	
Adapter Temperature	193 - 232	°C	
Melt Temperature	193 - 232	°C	
Die Temperature	199 - 232	°C	
Extrusion instructions			
Zone 6 Temperature: 204 to 221°C Melt Pump, Pipes, Screen Changer Temperature: 193 to 232°C Polish Rolls Temperature: 66 to 104°C Head Pressure: 10 to 21 MPa			

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