

Americas Styrenics EA3400

General Purpose Polystyrene

Americas Styrenics LLC

Message:

Americas Styrenics EA3400 is a general-purpose polystyrene material. This product is available in North America and is processed by co-extrusion, extrusion or injection molding.

The main features of the Americas Styrenics EA3400 are:

- odorless/tasteless channel
- crystal
- accessible food
- Good toughness
- Transparency

Typical application areas include:

- engineering/industrial accessories
- hat/cap/cork
- food contact applications
- additive/masterbatch
- medical/health care

General Information			
UL YellowCard		E326906-100845180	
Features	Low Residuals		
	Lower odor transfer		
	Lower taste transfer		
	Crystal		
	Good coloring		
	Definition, high		
	Good toughness		
	Compliance of Food Exposure		
Uses	Thick wall fittings (parts)		
	Shield		
	Mixing		
	Medical/nursing supplies		
Agency Ratings		FDA 21 CFR 177.1640	
UL File Number		E326906	
Forms		Particle	
Processing Method	Co-extrusion molding		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792

Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	3210	MPa	ASTM D638
Tensile Strength			ASTM D638
Fracture, injection molding	46.0	MPa	ASTM D638
Injection Molding	46.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	3.0	%	ASTM D638
Flexural Modulus (Injection Molded)	3240	MPa	ASTM D790
Flexural Strength (Injection Molded)	59.0	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	89.0	°C	ASTM D648
1.8 MPa, not annealed	82.0	°C	ASTM D648
Vicat Softening Temperature	99.0	°C	ASTM D1525
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
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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