

Americas Styrenics EA3130

General Purpose Polystyrene

Americas Styrenics LLC

Message:

Americas Styrenics EA3130 is a general-purpose polystyrene material. This product is available in North America or Latin America and is processed by extrusion or injection molding. The main characteristics of Americas Styrenics EA3130 are: contact with food.
Typical application areas include:
food contact applications
additive/masterbatch
medical/health care

General Information	
Features	Compliance of Food Exposure No additive
Uses	Color masterbatch Profile Medical devices
Agency Ratings	FDA 21 CFR 177.1640
Forms	Particle
Processing Method	Extrusion 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)	4.8	g/10 min	ASTM D1238
Molding Shrinkage - Flow (24 hr)	0.40 - 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ASTM D638
Tensile Strength (Yield)	50.0	MPa	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Flexural Strength (Yield)	66.0	MPa	ASTM D790
Tensile Rupture	50.0	MPa	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	97.0	°C	ASTM D648

1.8 MPa, unannealed, 6.35mm	88.0	°C	ASTM D648
Vicat Softening Temperature	107	°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	
Back Pressure	0.200 - 1.20	MPa	
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			

Polish Rolls: 66 to 104 °C Head Pressure: 10 to 21 Mpa

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