

Americas Styrenics MB3150

General Purpose Polystyrene

Americas Styrenics LLC

Message:

Americas Styrenics MB3150 is a general-purpose polystyrene material. This product is available in North America and is processed by extrusion or injection molding.

The main features of the Americas Styrenics MB3150 are:

flame retardant/rated flame

crystal

accessible food

Rapid Prototyping Cycle

Good toughness

Typical application areas include:

packing

container

Consumer goods

food contact applications

General Information			
UL YellowCard		E326906-100264829	
Features	Crystal		
	Fast molding cycle		
	Heat resistance, high		
	Definition, high		
	Good toughness		
	Compliance of Food Exposure		
Uses	Media packaging		
	Container		
	Consumer goods application field		
	Small bottle		
Agency Ratings		FDA 21 CFR 177.1640	
UL File Number		E326906	
Appearance		Transparent-Light Blue	
Forms		Particle	
Processing Method	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)	3.0	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)	3100	MPa	ASTM D638
Tensile Strength			ASTM D638
Fracture, injection molding	51.0	MPa	ASTM D638
Injection Molding	51.0	MPa	ASTM D638
Tensile Elongation (Break, Injection Molded)	3.0	%	ASTM D638
Flexural Modulus (Injection Molded)	3280	MPa	ASTM D790
Flexural Strength (Injection Molded)	83.0	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	98.0	°C	ASTM D648
1.8 MPa, not annealed	88.0	°C	ASTM D648
Vicat Softening Temperature	107	°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	230 - 245	°C	
Middle Temperature	215 - 230	°C	
Front Temperature	200 - 215	°C	
Nozzle Temperature	230 - 245	°C	
Mold Temperature	15.6 - 65.6	°C	
Injection Rate	Fast		
Back Pressure	0.200 - 1.50	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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

