

MBA PS 3122 90/05

General Purpose Polystyrene

MBA Polymers

Message:

A post-consumer recycled polystyrene for general use. Available in deep black (reference 90/05).

General Information	
Recycled Content	Yes
Uses	General Purpose
Appearance	Black
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.5	g/10 min	ISO 1133

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2400	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	26.0	MPa	ISO 527-2/50
Flexural Modulus (23°C)	2250	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	7.0	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	87.0	°C	ISO 306/B50

Injection	Nominal Value	Unit
Drying Temperature	70.0	°C
Drying Time	1.0 to 2.0	hr
Suggested Max Moisture	0.050 to 0.10	%
Processing (Melt) Temp	190 to 230	°C
Mold Temperature	20.0 to 60.0	°C

Extrusion	Nominal Value	Unit
Drying Temperature	70.0	°C
Drying Time	1.0 to 2.0	hr
Suggested Max Moisture	0.050 to 0.10	%
Melt Temperature	180 to 210	°C

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