

# MARPOL® PSM 6131

Medium Impact Polystyrene

Marco Polo International, Inc.

## Message:

MARPOL ® PSM 6131 is a medium impact polystyrene with well balanced physical properties. This is an excellent polymer for those high gloss applications.

General Information			
Features	Food Contact Acceptable		
	High Gloss		
	Medium Impact Resistance		
Uses	Containers		
	Household Goods		
	Toys		
Agency Ratings	FDA 21 CFR 177.1640		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm <sup>3</sup>	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	24.8	MPa	ASTM D638
Tensile Elongation (Yield)	40	%	ASTM D638
Flexural Strength	45.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	75	J/m	ASTM D256
Falling Dart Impact	10.7	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	87.2	°C	ASTM D648
Vicat Softening Temperature	93.3	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gloss (60°)	97		ASTM D523

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