

# Osterlene® GPPS0900

General Purpose Polystyrene

Osterman & Company

Message:

GPPS0900 is a crystal polystyrene for both injection molding and cap layer co-extrusion. Injection molding applications such as medical and laboratory parts, tumblers and jewel boxes demonstrate the polymer's ability to be molded with minimal stresses and fast cycles. Utilizing GPPS0900 as a cap layer in cups, plates and other consumer disposables takes advantage of this polymer's melt rheology.

General Information			
Uses	Cup		
	Shield		
	Medical/nursing supplies		
Agency Ratings	FDA 21 CFR 177.1640		
Processing Method	Co-extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3030	MPa	ASTM D638
Tensile Strength	46.2	MPa	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	96.7	°C	ASTM D648
Vicat Softening Temperature	101	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94

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