

Synthos PS GP 137

General Purpose Polystyrene

Synthos S.A.

Message:

SYNTHOS PS GP 137 is general purpose polystyrene (GPPS) with excellent optical properties, gloss and very easy flow - good processability. It is a thermoplastic material designed for injection moulding and extrusion. Product has a form of cylindrical granules of diameter 2.5 to 6 mms.

APPLICATION

Injection moulding is used to produce e.g. cups for the food industry, medical devices, caps, casings, drawing templates.

In the extrusion of plates and sheets with glossy surface is used most often as a co-extrusion material (glossy top layer).

The composition of the polymer meets the requirements of the Health and can therefore be used for the production of articles coming into contact with food.

General Information			
Features	Food Contact Acceptable		
	General Purpose		
	Good Flow		
	Good Processability		
	High Gloss		
	Opticals		
Uses	Caps		
	Cups		
	General Purpose		
	Medical/Healthcare Applications		
	Sheet		
Appearance	Colorless		
Forms	Granules		
Processing Method	Coextrusion		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	17 to 19	g/10 min	ISO 1133
Molding Shrinkage	0.20 to 0.50	%	Internal Method
Particle Size	2.50 to 6.00	mm	
Residual Styrene	0.025	%	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	10	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method

Flame Rating (1.60 mm)	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer	70.0	°C
Hot Air Dryer	70.0	°C
Drying Time		
Desiccant Dryer	1.0	hr
Hot Air Dryer	2.0 to 4.0	hr
Processing (Melt) Temp	180 to 260	°C
Mold Temperature	10.0 to 60.0	°C
Extrusion	Nominal Value	Unit
Melt Temperature	200 to 230	°C

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