

Synthos PS GP 154

General Purpose Polystyrene

Synthos S.A.

Message:

SYNTHOS PS GP 154 is general purpose polystyrene (GPPS) with excellent optical properties, gloss and balanced combination of rheological, mechanical and thermal properties. It is a thermoplastic material designed for injection moulding, extrusion and thermoforming. Product has a form of cylindrical granules of diameter 2.5 to 6 mms.

APPLICATION

Injection moulding is used to produce e.g. dishes, jars, screw caps, Petri dishes.

Extrusion is used to produce sheets and plates that can be thermoformed to packaging for the food industry. For this type of processing are properties of SYNTHOS PS GP 154 usually modified by blending with the high-impact polystyrene (HIPS) and SBS copolymers. It is also used as a co-extrusion material in the extrusion plates and sheets with a glossy surface.

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
	High Gloss
	Opticals
Uses	Blending
	Caps
	Food Packaging
	General Purpose
	Sheet
Appearance	Colorless
Forms	Granules
Processing Method	Coextrusion
	Extrusion
	Injection Molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0 to 10	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	86.0	°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 240	°C

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