

Synthos PS GP 174

General Purpose Polystyrene

Synthos S.A.

Message:

SYNTHOS PS GP 174 is general purpose polystyrene (GPPS) of excellent heat resistance and good rheological properties. It is a thermoplastic material designed for extrusion, thermoforming and injection moulding. Product has a form of cylindrical granules of diameter 2.5 to 6 mms. SYNTHOS PS GP 174 contains no internal lubricants.

APPLICATION

Injection moulding is used to produce parts with increased thermal resistance.

Production of XPS sheets and plates by means of direct extrusion and blowing.

It is suitable for blending with high-impact polystyrene (HIPS) and SBS copolymers to increase the thermal resistance of the product e.g. cups for hot drinks.

General Information	
Features	General Purpose
	High Heat Resistance
Uses	Blending
	Cups
	General Purpose
	Sheet
Appearance	Colorless
Forms	Granules
Processing Method	Extrusion
	Injection Molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.0 to 8.0	g/10 min	ISO 1133
Molding Shrinkage	0.20 to 0.50	%	Internal Method
Particle Size	2.50 to 6.00	mm	
Residual Styrene	0.035	%	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	14	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	101	°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	80.0	°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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