

# Synthos PS HI 552M

High Impact Polystyrene

Synthos S.A.

Message:

SYNTHOS PS HI 552M is high-impact polystyrene (HIPS) with a balanced combination of rheological, mechanical and thermal properties, suitable for general application use. It is a thermoplastic material designed for injection moulding and extrusion. Product has a form of lens granules of diameter 2,5 to 4 mms.

APPLICATION

Injection moulding is used to produce consumer goods and technical components that are exposed to higher mechanical stress. Good results are achieved in extruded profiles.  
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 Impact Resistance		
Uses	Consumer Applications		
	General Purpose		
	Profiles		
Appearance	Opaque		
Forms	Granules		
Processing Method	Extrusion		
	Injection Molding		
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	0.30 to 0.60	%	Internal Method
Particle Size	2.50 to 4.00	mm	
Residual Styrene	0.025	%	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	120	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	88.0	°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	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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#### Recommended distributors for this material

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