

# Synthos PS HI 945E

High Impact Polystyrene

Synthos S.A.

Message:

SYNTHOS PS HI 945E is high-impact polystyrene (HIPS) with properties suitable for thermoforming. It is a thermoplastic material designed for extrusion and thermoforming. Product has a form of cylindrical granules of diameter 2.5 to 6 mm.

APPLICATION

Extrusion is used to produce sheets and plates which are usually thermoformed to packaging e.g. for the food and dairy industry. Furthermore, technical parts, other consumer or industrial articles.

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		
	High Impact Resistance		
Uses	Consumer Applications		
	Food Packaging		
	Industrial Applications		
	Sheet		
Appearance	Opaque		
Forms	Granules		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.5 to 4.7	g/10 min	ISO 1133
Molding Shrinkage	0.30 to 0.60	%	Internal Method
Particle Size	2.50 to 6.00	mm	
Residual Styrene	0.020	%	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m²	ISO 179/1eA
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	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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