

# Synthos PS HI 562E

High Impact Polystyrene

Synthos S.A.

Message:

SYNTHOS PS HI 562E 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 lens granules of diameter 2,5 to 4 mms.

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) | 3.0 to 4.0              | 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)    | 9.5                     | kJ/m²    | ISO 179/1eA     |
| Charpy Unnotched Impact Strength (23°C)  | 130                     | 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 270    | °C   |
| Mold Temperature       | 10.0 to 60.0  | °C   |
| Extrusion              | Nominal Value | Unit |
| Melt Temperature       | 200 to 240    | °C   |

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