Styrolution PS 147F

General Purpose Polystyrene INEOS Styrolution Group GmbH

PROSPECTOR® www.ulprospector.com

Technical Data

Product Description

Styrolution PS 147F is a highly transparent GPPS grade. It gives excellent mechanical and heat resistance properties while providing with easy processability and short cycle time.

FEATURES

- Medium Flow
- Easy processability
- · Good mechanical and heat resistance properties

APPLICATIONS

- Transparent parts for refrigerators such as fruit and vegetable crispers, chillers, flaps, trays etc
- Stationery products like pen barrels, scales etc.
- Household applications such as crystalware, kitchen containers etc.
- Packaging applications such as chocolate boxes, display cabinets, etc.
- · Other transparent articles in injection Molding applications

General

Material Status	 Commercial: Active 		
Literature ¹	Technical Datasheet (English)		
Search for UL Yellow Card	 INEOS Styrolution Group G Styrolution PS 	imbH	
Availability	 Asia Pacific 		
Features	Fast Molding CycleGeneral Purpose	Good ProcessabilityHigh Heat Resistance	Medium Flow
Uses	 Appliance Components Containers	Household GoodsPackaging	Stationary Supplies
Appearance	 Clear/Transparent 		
Forms	Pellets		
Processing Method	Extrusion	 Injection Molding 	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	0.397 in ³ /10min	6.50 cm³/10min	ISO 1133
Molding Shrinkage	0.30 to 0.60 %	0.30 to 0.60 %	ISO 294-4
Water Absorption			ISO 62
Saturation, 73°F (23°C)	< 0.10 %	< 0.10 %	
Equilibrium, 73°F (23°C), 50% RH	< 0.10 %	< 0.10 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	479000 psi	3300 MPa	ISO 527-2
Tensile Stress (Yield, 73°F (23°C))	7250 psi	50.0 MPa	ISO 527-2
Tensile Strain (Break, 73°F (23°C))	3.0 %	3.0 %	ISO 527-2
Flexural Stress	14200 psi	98.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.4 ft·lb/in ²	3.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	8.1 ft·lb/in ²	17 kJ/m²	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness	21800 psi	150 MPa	ISO 2039-1



UL and the UL logo are trademarks of UL LLC © 2018. All Rights Reserved. UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Styrolution PS 147F

Thermal

General Purpose Polystyrene INEOS Styrolution Group GmbH

> Heat Deflection Temperature ³ 66 psi (0.45 MPa), Annealed 264 psi (1.8 MPa), Annealed Vicat Softening Temperature

PROSPECTOR®

		www.uiprospector.com
 Nominal Value (English)	Nominal Value (SI)	Test Method
199 °F	93.0 °C	ISO 75-2/B
185 °F	85.0 °C	ISO 75-2/A
212 °F	100 °C	ISO 306/A50
203 °F	95.0 °C	ISO 306/B50

	203 °F	95.0°C	ISO 306/B50
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+14 ohms	> 1.0E+14 ohms	IEC 60093
Volume Resistivity	> 1.0E+18 ohms · cm	> 1.0E+18 ohms · cm	IEC 60093
Electric Strength 4 (0.0591 in (1.50 mm))	3400 V/mil	140 kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	2.50	2.50	
1 MHz	2.50	2.50	
Late Ates	N La service and N (and the and Charles N		

Injection	Nominal Value (English)	Nominal Value (SI)	
Processing (Melt) Temp	356 to 500 °F	180 to 260 °C	
Mold Temperature	50 to 140 °F	10 to 60 °C	
Injection Velocity	472 in/min	12 m/min	
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	< 500 °F	< 260 °C	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 4h/80°C

⁴ Short Time



2 of 3

UL and the UL logo are trademarks of UL LLC © 2018. All Rights Reserved. UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content. General Purpose Polystyrene INEOS Styrolution Group GmbH



Where to Buy

Supplier

INEOS Styrolution Group GmbH Frankfurt, Germany Telephone: +49 69 5095501200 Web: http://www.ineos-styrolution.com

Distributor

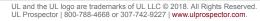
ALBIS Plastic

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country. Telephone: +49-40-78105-0

Web: http://www.albis.com/

Availability: Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Romania, Russian Federation, Slovakia, Sweden, Switzerland, United Kingdom





The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content. Form No. TDS-207425-en Document Created: Monday, August 6, 2018 Added to Prospector: June 2012 Last Updated: 4/13/2016