

# Styrolution PS 495F

高抗冲聚苯乙烯

INEOS Styrolution

## Technical Data

### Product Description

Styrolution PS 495F is a high flow, high impact polystyrene with a good heat resistance and a high stiffness.

#### FEATURES

- High flow HIPS
- Good heat resistance with high stiffness
- Suitable for gas-assisted injection molding process

#### APPLICATIONS

- Consumer electronics: LCD Back cover, TV-front and back cover, printer cabinets etc.
- Household: internal parts of vacuum cleaners; refrigerator parts etc.
- Large housing parts as well as filigree, shapely designs parts

### General

Features	<ul style="list-style-type: none"> <li>• 高刚性</li> <li>• 高抗撞击性</li> </ul>	<ul style="list-style-type: none"> <li>• 流动性高</li> <li>• 耐热性, 中等</li> </ul>	
Uses	<ul style="list-style-type: none"> <li>• 电气/电子应用领域</li> <li>• 家电部件</li> </ul>	<ul style="list-style-type: none"> <li>• 家用货品</li> <li>• 外壳</li> </ul>	<ul style="list-style-type: none"> <li>• 印刷机零件</li> </ul>
Forms	<ul style="list-style-type: none"> <li>• 颗粒</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>• Gas-Assisted Injection Molding • 注射成型</li> </ul>		

### Physical

	额定值 单位制	测试方法
Density	1.05 g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	9.50 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage	0.30 到 0.60 %	ISO 294-4
Water Absorption		ISO 62
饱和, 23°C	< 0.10 %	
平衡, 23°C, 50% RH	< 0.10 %	

### Mechanical

	额定值 单位制	测试方法
Tensile Modulus	2000 MPa	ISO 527-2
Tensile Stress (屈服, 23°C)	26.0 MPa	ISO 527-2
Tensile Strain		ISO 527-2
屈服, 23°C	1.5 %	
断裂, 23°C	40 %	
Flexural Modulus (23°C)	2100 MPa	ISO 178
Flexural Stress (23°C)	40.0 MPa	ISO 178

### Films

	额定值 单位制	测试方法
Tensile Elongation - MD (断裂)	40 %	ISO 527-3

### Impact

	额定值 单位制	测试方法
Charpy Notched Impact Strength (23°C)	17 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (-30°C)	130 kJ/m <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength (23°C)	13 kJ/m <sup>2</sup>	ISO 180/A

### Hardness

	额定值 单位制	测试方法
Ball Indentation Hardness	74.0 MPa	ISO 2039-1

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Thermal	额定值 单位制	测试方法
Heat Deflection Temperature <sup>4</sup>		
0.45 MPa, 退火	89.0 °C	ISO 75-2/B
1.8 MPa, 退火	85.0 °C	ISO 75-2/A
Vicat Softening Temperature		
--	98.0 °C	ISO 306/A50
--	90.0 °C	ISO 306/B50
CLTE - 流动	1.0E-4 cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17 W/m/K	DIN 52612
Electrical	额定值 单位制	测试方法
Surface Resistivity	> 1.0E+13 ohms	IEC 60093
Volume Resistivity	> 1.0E+18 ohms·cm	IEC 60093
Electric Strength <sup>5</sup> (1.50 mm)	160 kV/mm	IEC 60243-1
Dielectric Constant		
100 Hz	2.50	IEC 60250
1 MHz	2.50	IEC 60250
Dissipation Factor		IEC 60250
100 Hz	4.0E-4	
1 MHz	4.0E-4	
Optical	额定值 单位制	测试方法
Gloss (60°)	45	ASTM D523
Injection	额定值 单位制	
Processing (Melt) Temp	180 到 260 °C	
Mold Temperature	10 到 60 °C	
Injection Velocity	12 m/min	