

# Polystyrene

Polystyrene (or Styrene) advanced performance resins are crystal-clear, resist moisture, stable when exposed to radiation, can be uniformly colored, have attractive light transmission capabilities, dimensional stability, high tensile and flexible.

## BASF PS4324 (Polystyrene, High Impact) Property Sheet

\* All Values are Nominal.

---

<b>Physical</b>	<b>Value</b>	<b>Test</b>
Density-Specific Gravity	1.04 sp gr 23/23°C	ASTM D792
Melt Flow Rate (G - 200 °C/5 kg)	8 g/10 min	ASTM D1238

---

<b>Mechanical</b>	<b>Value</b>	<b>Test</b>
Tensile Modulus	2.5e+005 psi	ASTM D638
Tensile Strength @ Yld	3200 psi	ASTM D638
Tensile Strength @ Brk	3000 psi	ASTM D638
Tensile Elongation @ Brk	50 %	ASTM D638
Flexural Modulus	3e+005 psi	ASTM D790
Flexural Strength @ Yld	5700 psi	ASTM D790

---

<b>Impact</b>	<b>Value</b>	<b>Test</b>
Notched Izod Impact (.125 in)	2.6 ft-lb/in	ASTM D256
Gardner Impact (.125 in)	200 in-lb	ASTM D3029

---

<b>Hardness</b>	<b>Value</b>	<b>Test</b>
Rockwell Hardness (L-Scale)	60	ASTM D785

---

<b>Thermal</b>	<b>Value</b>	<b>Test</b>
DTUL @ 264psi - Unannealed	180 °F	ASTM D648
Vicat Softening Point	210 °F	ASTM D1525

---

<b>Optical</b>	<b>Value</b>	<b>Test</b>
Gardner Gloss (60 °)	50 %	ASTM D523

---

\*\* These are typical property values intended only as guides. They should not be used to establish specification limits or as the sole basis of design. Determining whether this information, or this plastic, should be used for a particular application is the responsibility of the user.

[Reach Compliance Letter](#)

[RoHS Compliance Certificate](#)

[ISO Quality Policy](#)