

## Americas Styrenics STYRON® 478 High Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

### Material Notes:

Product Characteristics Good gloss Excellent balance of flow and stiffness Food Contact Compliant UL Classification 94HBUSP Class

VI Typical Applications Appliances Medical Housewares Consumer electronics Information provided by Americas Styrenics LLC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Americas-Styrenics-STYRON-478-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-478-High-Impact-Polystyrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 5.00 kg, Temperature 200 °C	6.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength at Break	25.5 MPa	3700 psi	ASTM D638
Tensile Strength	29.6 MPa	4300 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Tensile Modulus	2.00 GPa	290 ksi	ASTM D638
Flexural Strength	39.3 MPa	5700 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm	1.60 ft-lb/in	compression molded; ASTM D256
	1.07 J/cm	2.00 ft-lb/in	injection molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	80.6 °C	177 °F	ASTM D648
Vicat Softening Point	102 °C	216 °F	ASTM D1525

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