

## Americas Styrenics STYRON® 695 High Heat Crystal Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

**Material Notes:**

Product Characteristics Reduced residuals High heat resistance high strength Food Contact Compliant Typical Applications OPS Information provided by Americas Styrenics LLC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Americas-Styrenics-STYRON-695-High-Heat-Crystal-Polystyrene.php](http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-695-High-Heat-Crystal-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	1.5 g/10 min @Load 5.00 kg, Temperature 200 °C	1.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	107	107	ASTM D785
Tensile Strength at Break	51.7 MPa	7500 psi	ASTM D638
Tensile Strength	52.4 MPa	7600 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	3.17 GPa	460 ksi	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	3.24 GPa	470 ksi	ASTM D790
Izod Impact, Notched	0.214 J/cm	0.400 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	50.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	98.3 °C	209 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	88.9 °C	192 °F	ASTM D648
Vicat Softening Point	108 °C	227 °F	ASTM D1525

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