

## Americas Styrenics STYRON A-TECH® 1290 High Impact Polystyrene

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

**Material Notes:**

Product Characteristics Easy processing Good impact resistance ESCR Food Contact Compliant UL Classification 94HB Typical

Applications Creamer and yogurt containers Extrusion/ thermoforming Information provided by Americas Styrenics LLC.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Americas-Styrenics-STYRON-A-TECH-1290-High-Impact-Polystyrene.php](http://www.lookpolymers.com/polymer_Americas-Styrenics-STYRON-A-TECH-1290-High-Impact-Polystyrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 200 °C	3.0 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.2 MPa	2200 psi	ASTM D638
Tensile Strength	19.3 MPa	2800 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Tensile Modulus	2.02 GPa	293 ksi	ASTM D638
Flexural Strength	34.5 MPa	5000 psi	ASTM D790
Flexural Modulus	2.12 GPa	307 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	compression molded; ASTM D256
	1.82 J/cm	3.40 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)	93.9 °C	201 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.6 °C	186 °F	ASTM D648
Vicat Softening Point	103 °C	217 °F	ASTM D1525

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