

## Styron EMERGE<sup>®</sup>,ç 7500 Polycarbonate (PC) / Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

### Material Notes:

EMERGE<sup>®</sup>,ç PC/ABS 7500 advanced resin is an ignition-resistant PC/ABS blend that contains no chlorine or bromine additives. This resin is suitable for use in a wide variety of applications in the information technology equipment market. Information provided by Dow This product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styron-EMERGE-7500-Polycarbonate-PC-Acrylonitrile-Butadiene-Styrene-ABS.php](http://www.lookpolymers.com/polymer_Styron-EMERGE-7500-Polycarbonate-PC-Acrylonitrile-Butadiene-Styrene-ABS.php)

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4/D2
Melt Flow	12 g/10 min	12 g/10 min	ISO 1133
	@Load 3.80 kg, Temperature 230 Â°C	@Load 8.38 lb, Temperature 446 Â°F	
	55 g/10 min	55 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 260 Â°C	@Load 11.0 lb, Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ISO 2039/2
Tensile Strength at Break	45.0 MPa	6530 psi	50mm/min, injection molded, unannealed; ISO 527-2
	@Thickness 4.00 mm	@Thickness 0.157 in	
Tensile Strength, Yield	60.0 MPa	8700 psi	50mm/min, injection molded, unannealed; ISO 527-2
	@Thickness 4.00 mm	@Thickness 0.157 in	
Elongation at Break	75 %	75 %	50mm/min, injection molded, unannealed; ISO 527-2
	@Thickness 4.00 mm	@Thickness 0.157 in	
Elongation at Yield	4.5 %	4.5 %	50mm/min, injection molded, unannealed; ISO 527-2
	@Thickness 4.00 mm	@Thickness 0.157 in	
Flexural Strength	90.0 MPa	13100 psi	2mm/min, injection molded, unannealed; ISO 178
	@Thickness 4.00 mm	@Thickness 0.157 in	
Flexural Modulus	2.40 GPa	348 ksi	2mm/min, injection molded, unannealed; ISO 178
	@Thickness 4.00 mm	@Thickness 0.157 in	
Izod Impact, Notched (ISO)	35.0 kJ/mÂ²	16.7 ft-lb/inÂ²	ISO 180/A

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
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CTE, linear	67.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	37.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
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Deflection Temperature at 0.46 MPa (66 psi)	97.0 $\text{Å}^\circ\text{C}$	207 $\text{Å}^\circ\text{F}$	ISO 75-2 Bf
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Deflection Temperature at 1.8 MPa (264 psi)	87.0 $\text{Å}^\circ\text{C}$	189 $\text{Å}^\circ\text{F}$	ISO 75-2 Af
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Vicat Softening Point	102 $\text{Å}^\circ\text{C}$	216 $\text{Å}^\circ\text{F}$	50 $\text{Å}^\circ\text{C}$ / 50N; ISO 306 B 50
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	112 $\text{Å}^\circ\text{C}$	234 $\text{Å}^\circ\text{F}$	120 $\text{Å}^\circ\text{C}$ / 10N; ISO 306 A 120
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Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
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	V-0 @Thickness 2.00 mm	V-0 @Thickness 0.0787 in	
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Oxygen Index	30 %	30 %	ISO 4589
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Processing Properties	Metric	English	Comments
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Melt Temperature	240 - 270 $\text{Å}^\circ\text{C}$	464 - 518 $\text{Å}^\circ\text{F}$	
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Mold Temperature	60.0 - 90.0 $\text{Å}^\circ\text{C}$	140 - 194 $\text{Å}^\circ\text{F}$	
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Drying Temperature	80.0 - 90.0 $\text{Å}^\circ\text{C}$	176 - 194 $\text{Å}^\circ\text{F}$	
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Dry Time	3 - 4 hour	3 - 4 hour	
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## Contact Songhan Plastic Technology Co.,Ltd.

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